



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3360

CXLII

JULY 1, 1944

Annual Subscription (with
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In jars containing approximately 2 ounces.

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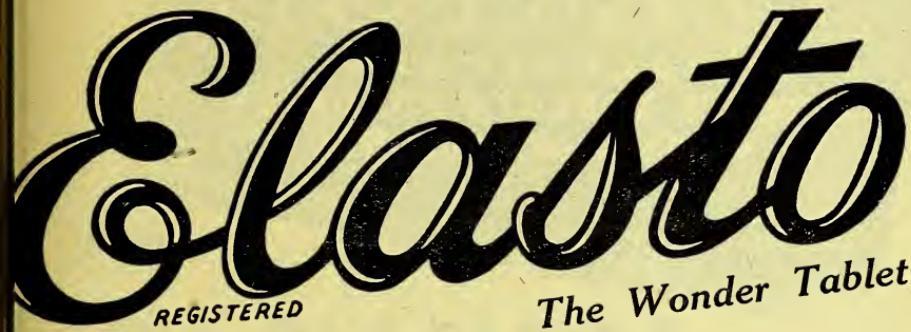
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50 Beak Street, London, W.1**

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how 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line



Read What Users of 'Elasto' Say:—

Original letters have been seen by a representative of "The Chemist and Druggist")

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As a sufferer of varicose veins, I must state it before using 'Elasto' I was tortured with red and aching legs. After taking a month's supply of 'Elasto' I remark with emphasis that feeling of tiredness and aching has vanished. all sufferers of varicose veins I certainly commend 'Elasto'—they are a boon.

1180.

— R. P.

mediate relief, and, although I was relieved of the pains and inconvenience, I have never ceased to take them regularly, as I have found them to act as a tonic as well, giving me energy that I previously lacked. I have recommended them to many others since.

AT 1108.

— F. T.

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mediate relief, and, although I was relieved of the pains and inconvenience, I have never ceased to take them regularly, as I have found them to act as a tonic as well, giving me energy that I previously lacked. I have recommended them to many others since.

AT 1108.

— F. T.

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AH 1263.

— E. H.

THESE generous acknowledgements are an indication of the solid goodwill behind Elasto. Thousands of users, all over the country, are daily telling their friends of similar experiences with this fine remedy.

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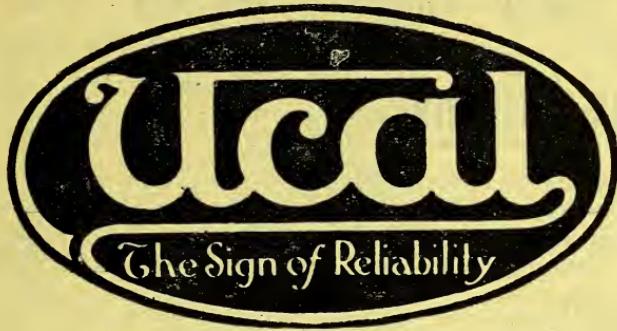
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at our existing Grimsby and Liverpool factories, and to equip an additional recently acquired factory.

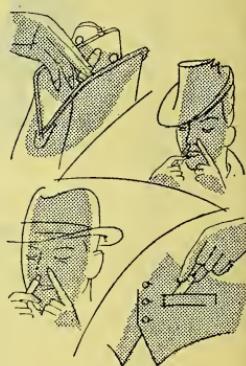
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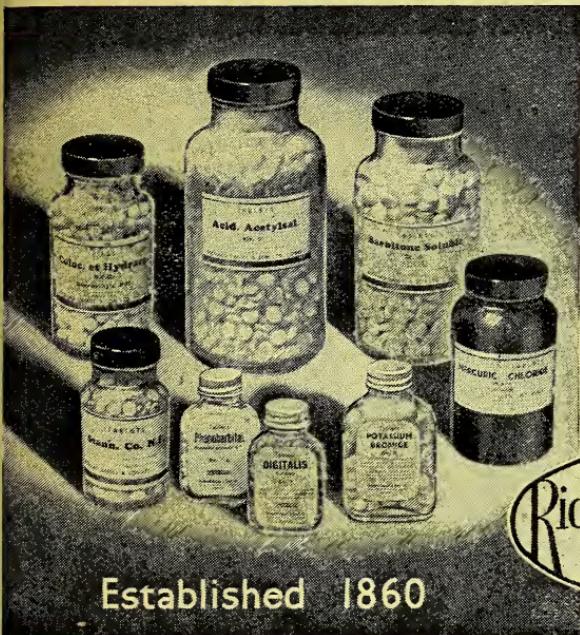
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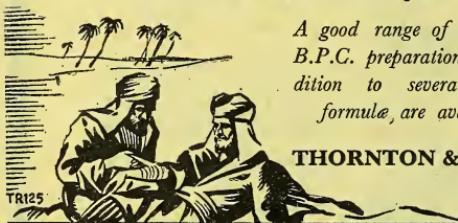
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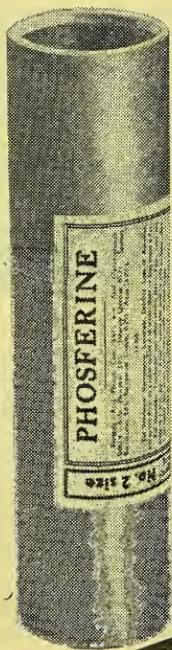


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Dated, 30th day of November, 1943.

Signed by the said LEWIS
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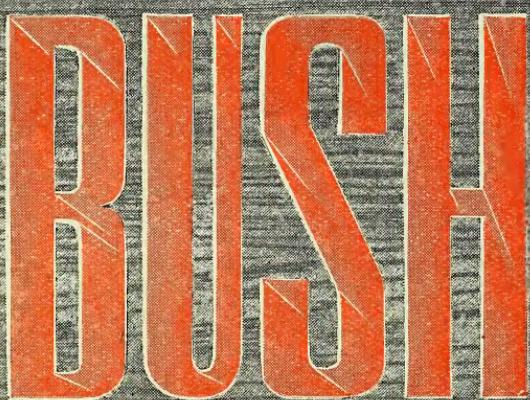
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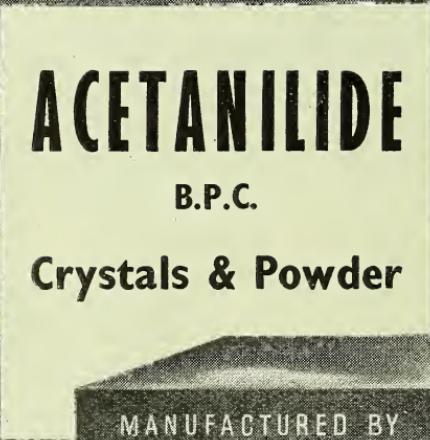
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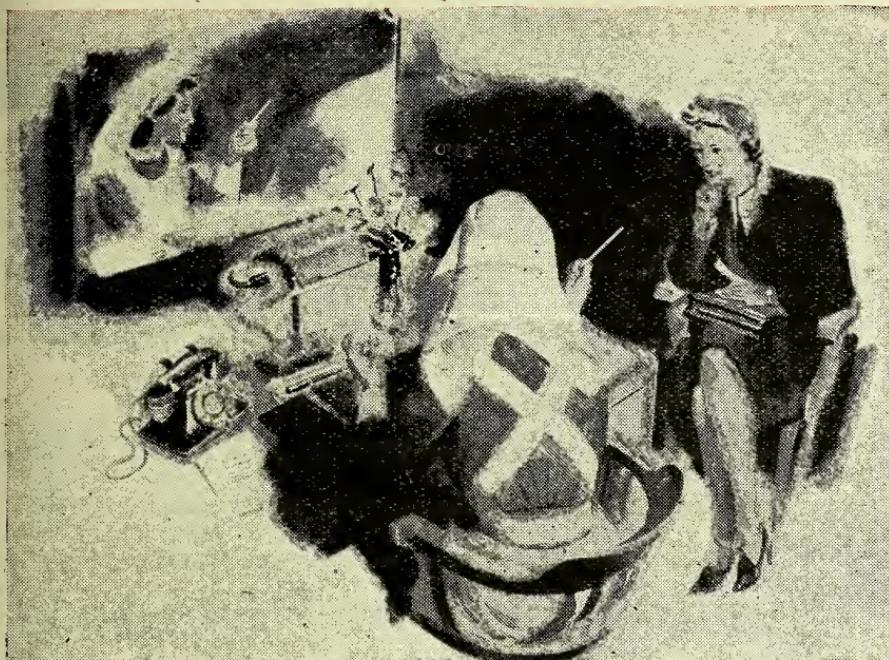
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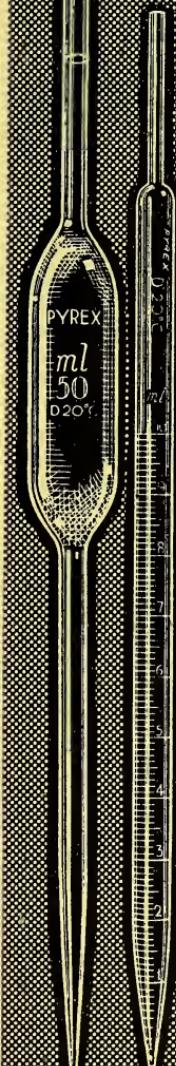
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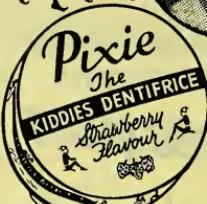
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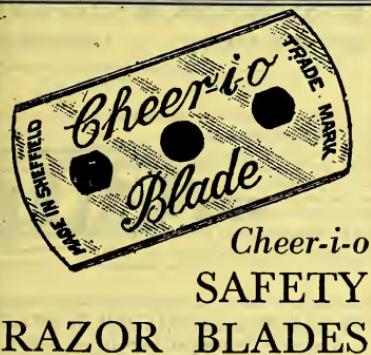
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NEWS OF THE WEEK

B.P. Amendment.—A notice of amendment sent to the official "Gazettes" by the Pharmacopeia Commission for publication on June 24 alters the iodine value of glycerides in oleum hippocrossi from "112 to 130" to "112 to 150."

Restriction of Sales Permitted.—Permits for North American alarm clocks are no longer required, but the Board of Trade announces that the issue of a general licence allowing retailers who wish to do so to restrict sales to customers who make a declaration that they need an alarm clock for their work and that they do not already possess one in working order.

Place Names on Trade Signs.—The Home Secretary has relaxed the restrictions on display of signs indicating place names. Under a new Order (the Removal of Direction Signs Order, 1944) the ban is limited to signs which can be seen and understood from low-flying aircraft. Re-erection of signs on shops and other business premises is therefore permitted, although large signs

exhibited on prominent buildings, such as factories, warehouses, etc., continue to be prohibited. The exhibition of place names on vehicles is again allowed.

Maximum Price for Auctioned Cameras.—The chairman of the local price regulation committee at Bishops Stortford has prohibited auctioneers locally from selling by auction any single unit of photographic apparatus for a sum exceeding £10. A notice to this effect has been sent by the Central Price Regulation Committee to the Photographic Dealers' Association following the Association's reply (which recommended the adoption of such a course) to an invitation by the C.P.R.C. to advise it on this point.

Meeting of Herb Importers.—The Ministry of Food announces that an invitation is extended to pre-war importers of herbs, particularly sage, thyme and marjoram, to attend a meeting at the Ministry, Portman Court, Portman Square, London, W.1, at 2.30 p.m. on July 3.

Overdose of Sleeping Tablets.—At Evesham, recently, a verdict of suicide while the balance of her mind was disturbed, was returned at an inquest on Helen Ada Hadley, Cheltenham Road, who was stated to have taken an overdose of sleeping tablets.

Cardiff Association Officers.—The following officers have been elected for the year: *President*, Mr. J. Livsey; *Vice-president*, Mr. A. L. Davies; *Treasurer*, Mr. G. Holley; *Secretary*, Mr. W. J. Evans; *Assistant Secretary*, Mr. S. W. Hague; *Press Correspondent*, Mr. E. T. Griffiths, Ph.C.

Doctor's Suicide.—At an inquest at Southport, on June 14, on Thomas Edmund Dodds, a retired medical practitioner, a verdict of "Suicide while the balance of his mind was disturbed" was recorded. A note had been left, which read: "I am suffering from cancer. Life is impossible; therefore I am bringing it to a close by taking an overdose of Luminal."

Theft from Dublin Pharmacy.—Patrick Cunningham, no fixed address, was sentenced to imprisonment for two months recently for illegal possession of a bottle of wine, the property of a chemist in Grafton Street, Dublin. The evidence was that Cunningham was seen taking something off the counter in the pharmacy, and the chemist found him with a bottle of wine in his hand.

Peck Presentation Fund.—A hand-beaten silver fruit-bowl on white onyx base was recently presented to Major E. Saville Peck, M.A., D.L., Ph.C., by subscribers to the Peck Presentation Fund as a tribute to the leading part he played for many years (until his retirement from membership of the Pharmaceutical Society's Council) in endeavours to bring about improvements in the pharmaceutical service of the Army.

Took Carbolic Acid.—At a Manchester inquest on June 12 on Private Thomas Doran, Harpurhey, the coroner recorded a verdict of "Suicide whilst the balance of his mind was disturbed." Doran died from the effects of carbolic acid poisoning a few hours after he arrived home from hospital on June 7. Inquiries showed that he bought a bottle of carbolic acid from a chemist shortly after his arrival in Manchester.

Prevention of Accidents.—It is announced by the Royal Society for the Prevention of Accidents that special training courses for industrial safety officers, organised by the Society for the Factory Department of the Ministry of Labour and National Service,

are being held at Wadham College, Oxford during June and July. A copy of the syllabus and programme of the remaining lectures can be obtained from the Society 52 Grosvenor Gardens, London, S.W.1.

Turkish Chrome for Allies.—Shipment of Turkish chrome from the port of Mersine are now being made at the rate of 12,000 tons monthly, with the prospect of an increase to 18,000 tons during the next two months. It is understood that negotiations are about to begin for a readjustment of the prices of the higher grades; the negotiations will be conducted by Great Britain, although the whole quantity exported is shipped to America.

Razor-blade "King" Fined.—At Barrow recently, Esse Smith Turner, Blackpool, who described himself as the "razor-blade king," was fined a total of £40 on four summonses of selling blades to shopkeepers at excess prices. The prosecution alleged that Turner sold at a profit of practically 600 per cent. more than he was entitled to. Turner pleaded that he was unaware that the price of blades was controlled. He was also fined £4 and costs for failing to furnish correct invoices.

Tube Manufacturers Reorganise.—The Collapsible Tube Manufacturers' Association has been reorganised, and now incorporates the leading manufacturers in the country. Members are co-operating to attain a high standard of manufacturing efficiency and to give the best possible service to tube users, either as individual members or through the Association's technical committee. The secretary of the Association is Mr. W. E. Fitzhugh, National Bank House, 101 Baker Street, London, W.1; telephone, Welbeck 127.

Lord Woolton on Science.—In an address to the School of Hygiene and Tropical Medicine on June 23, Lord Woolton (Minister of Reconstruction) said that during the war years scientists had saved the country from disaster and servitude. The benefits of scientific work might be demonstrated through the chemical works and the manufacturing processes of the pharmaceutical chemist, but the practical results were derived from the patient study and research of the men engaged in the pursuit of pure knowledge, often without thought of the practical application that would flow from it. Study of the fundamental sciences was the essential ground-work on which the applied sciences could build.

Unauthorised Poison Sale in Eire.—At Howth district court on June 19, a fine of 5s with £2 2s. costs and £1 1s. expenses was imposed on Mr. Trevor Walsh, Walsh's Medical Hall, Main Street, Howth, co. Dublin, who was summoned at the suit of the Pharmaceutical Society of Ireland with breach of Section 17 of the Pharmacy Act (Ireland) in keeping open shop for the sale of poison on March 9 without having a qualified person in charge. An Inspector of the Society gave evidence of calling at the Medical Hall on March 9 and purchasing a bottle of lysol. Mr. Walsh, when asked if he had a qualified man employed, replied that the qualified man was out. The Medical Hall was run as a private company by Mr. Walsh and his mother.

Vice-president at Watford.—Introducing Mr. J. F. McNeal as the speaker at a meeting of the Watford Branch of the Pharmaceutical Society recently, Mr. T. H. F.akes (chairman) paid tribute to the Society's vice-president by reading a record of his activities on the Council. Speaking on "A National Health Service," Mr. McNeal dealt with points in the White Paper that concern chemists. Mr. McNeal asked whether pharmacists wanted to give a service of the highest standard in the world. It was quite clear that if proper remuneration were asked for it should be on the basis of work actually done. He made an appeal for the Society's Benevolent Fund, and the CHAIRMAN, who moved a vote of thanks, said that appreciation could best be shown by supporting the Fund; a collection taken at the meeting brought in £6 11s.

Eire Price Standstill Order.—The Eire Minister of Supplies has made an important and far-reaching Standstill Prices and Charges Emergency Order, the stated aim of which is to prevent further increases in prices of all goods and services which are not at present controlled by specific price orders. The Order extends to goods and services sold or provided by manufacturers or other traders who had entered into price arrangements with the Minister (i.e., prices charged must conform with the new Order irrespective of existing arrangements). The Minister warns that he will utilise his wide powers against any member or section of the trading community who does not comply fully with the letter and spirit of this and other price orders, or who attempts to evade or circumvent the terms of the Order. Except for goods specifically excluded or subject to control under other Orders, the

prices of goods and services must not exceed the lowest price charged during the month of May. Where any prices at present are at levels exceeding the lowest prices in May they must forthwith be reduced. The Order does not apply to services performed as an employee for salary or wages, or to professional fees. Sales of specified classes of property and produce are also excluded, but these do not include any drug-trade items. The Minister does not propose to exercise his powers to make further exemptions to this Order until a sufficient period has elapsed to clarify the present acute conditions, and even then only in special circumstances and following fullest investigation of costs, past profits, and present financial resources of undertakings.

PARLIAMENTARY NEWS

Feeding-bottle Teats.—The Joint Parliamentary Secretary to the Ministry of Supply said on June 20 that additional rubber had been released for feeding-bottle teats, and a further increase was in contemplation.

Black Market in Cosmetics.—Mr. Wootton-Davies asked the President of the Board of Trade on June 20 what steps he proposed to take to deal with the black market in cosmetics. Mr. Dalton, in reply, pointed out that he had made an Order on August 23, 1943, tightening up control over the manufacture and supply of toilet preparations. During the past six months, thirty-eight convictions had been obtained for infringement of the control. Fines and costs amounted, in total, to about £7,000, and terms of imprisonment to about four years.

Medical Research Council Developments.—Replying to a question on the research programme of the Medical Research Council, Mr. Attlee (Lord President of the Council) said on June 20 that plans were under consideration. The Council had already been able to initiate certain schemes with a view to development as soon as circumstances permitted. Among other things, they had recently established a Research Unit in Applied Psychology at Cambridge, and research units in industrial medicine, human nutrition, and otology in London. The new buildings for the National Institute for Medical Research, completion of which had been interrupted by the war, would also make it possible to expand the Council's central establishment. The Government had already stated its intention of giving full support to research work.

LEGAL REPORTS

Slander Action Fails.—At Liverpool Assizes, on June 13, Samuel Albert Rixon, chemist's assistant, sued his employer, Bertram Rubin, M.P.S., Tarleton Street, Liverpool, for damages in a case of alleged slander. Plaintiff, who had been an unqualified dispenser with Mr. Rubin for two years, had repaid his employer £5 in respect of income tax. Mr. Rubin found a shortage in the till at the shop and was alleged to have made the suggestion that plaintiff had taken the money. He denied that the slander had been uttered, and the judge said he was not satisfied that any words had been spoken imputing dishonesty against Rixon, who left the Court with the same good character as he had had on entering. Judgment was given to defendant, with costs.

Morphine Charge Against Doctor.—At North London police court, on June 8, Francis Toner, a registered medical practitioner, of no fixed address, was sentenced to six months' imprisonment on a charge of having unlawfully procured twenty-four $\frac{1}{2}$ -gr. morphine sulphate tablets at Islington on June 2 and other amounts elsewhere on different dates. A detective-sergeant gave evidence that, as a result of a message, he went to the pharmacy of Lewis & Harris, 288 Upper Street, Islington, where he saw Toner, and said to him: "I understand that on June 2 you presented a prescription for thirty $\frac{1}{2}$ -gr. morphine sulphate tablets. As a result you were supplied with twenty-four such tablets. I have every reason to believe the prescription was false." On Toner, when searched, were a hypodermic syringe, two needles, an empty tube of morphine sulphate, two tubes of forty strichnine sulphate tablets, a bottle of distilled water, and a prescription. Counsel for the Director of Public Prosecutions said that defendant had been fined at Clerkenwell police court in 1936 for failing to keep proper records in connexion with dangerous drugs, and his authority to prescribe dangerous drugs had subsequently been withdrawn. In January 1942 he pleaded guilty at Wealdstone to four charges under the Dangerous Drugs Act. On May 25, 1944, he went to Lewis & Burroughs, Ltd., 29 Warwick Way, S.W.1, and produced a prescription for morphine sulphate tablets purporting to have been signed by a Dr. Scott. Dr. Scott had certainly attended him in the past, but he knew nothing about the prescription and had not given it. On June 2 exactly the same thing occurred at Timothy

Whites & Taylors, Ltd., 86 Pimlico Road. Defendant at first gave his name to the police as Turner, but later admitted he was Dr. Toner, and confessed that he had been taking drugs. He had received treatment at various times.

Glucose and Saccharin Offences.—At the South-western police court, London, on June 19, J. G. F. Sim, M.P.S., trading as Emmerton, 27 Balham High Road, S.W.12 was summoned for supplying soluble saccharin without a licence; selling it at above the maximum price; selling liquid glucose at above the maximum price; and failing to keep accurate records of all purchases and sales of liquid glucose. For the Ministry of Food it was stated that Sim charged 10s. per oz. for saccharin instead of the controlled price of 7s. 1d. and 24s. 6d. per 14 lb. for glucose when the fixed price was 6s. 6d. per 14 lb. He had been supplying glucose for at least six months, and his records showed only four transactions during the period. It was found that he had purchased saccharin and glucose at the correct maximum prices. When seen he made a statement that he did not know he was doing anything wrong in supplying the liquid glucose to his customer, although he knew that the customer was a manufacturer of British wines. For the defence it was stated that Sim was a youngish man who had not had much experience of the retail chemists' business in which he was junior partner. He had no idea that there were any Orders in existence regulating the sales of the two articles. The magistrate said the prices charged were shocking, and he must deal with the case as a serious one. He was "surprised defendants had no agency or organisation to keep them informed of the regulations." Sim was fined a total of £18, with costs.

C. & D. QUIZ NO. 31

1. What are peppercorn rents?
2. Why is ricinus so called?
3. Who first isolated glycerol?
4. With what planet was lead associated?
5. Where is galbanum first mentioned?
6. What is factitious Venice turpentine?
7. When was the title "Pharmaceutical Chemist" first restricted?
8. Who founded the Royal College of Physicians?
9. What is the derivation of sal ammoniac?
10. Who wrote "A billion cloves in an odorous mount"?

(Answers on p. 26)

TOPICAL REFLECTIONS

A Revised Draft

The revised draft of a "Statement upon Matters of Professional Conduct" issued by the Council of the Pharmaceutical Society (p. 672) is an improvement on its predecessor (*C. & D.*, 1943, I, 266). When it is discussed by the expected meeting of Branch representatives, it may be further improved. The present wording of Clause 6, for instance, is crude, and carries an implication which, so far as my experience serves, is unjustified. The prohibition in Clause 7 of advertising of dispensing services is, on the face of it, too rigid; the delegates may find it possible to agree on a better handling of the relations of pharmacists to each other and to the public in this department of the business of a chemist and druggist. Nothing has occurred to lessen my objection to Clause 17 (formerly Clause 19)—"Articles for medicinal use designated by the Council as undesirable should not be sold"—since I commented on it in your issue of March 20 last year. To the considerations then put forward in this section may be added one not less important, namely, that any so-called ethical precept of this kind undermines the sense of responsibility that should be part of the mental equipment of every qualified person. Many of us would protest to the last against handing over to any public body, however eminent, the power to decide for us in cases of conscience. If the official argument is to be that not cases of conscience, but only cases of expediency, are contemplated, then it will become the duty of the framers of the clause to remodel it accordingly.

White Paper Discussed

Though I had not intended to refer again to the National Health Service White Paper or a considerable time to come, two discussions in Scotland (pp. 674-75) and your editorial comment (p. 677) suggest a brief note on the ratio of qualified to unqualified assistance in dispensing. At the outset I may reaffirm my view that our negotiators, whoever they may be, should press for "registered pharmacists only" as the norm in N.H.S. dispensing, such dilution (if any) as may be required to be limited by strictly defined conditions. In the Edinburgh discussion Mr. Teesdale was on the right track in urging the limitation of the permissible number of apprentices and unqualified assistants. There was, perhaps, a time when the average proprietor of a chemist's shop had hardly realised the danger of

leaving too much to assistants, apprentices, and the class designated "improvers." The Hawkins judgment of 1890 tightened up matters in respect of the sale of poisons; but various medicinal substances not scheduled as poisons call for skill in distribution, and young shoulders are not usually accommodated with old heads. We may agree with the same speaker that remuneration must be "directly proportional" to salaries paid, adding, however, that other current expenses must be taken into account. The plain fact is that all improvements, whether in a health service or in any other sphere, have to be paid for; and during the earlier stages of the process the benefit accruing is not always obvious. We can hardly expect to reach smooth water after the war while taxation remains at or near its present level.

Prescription Books

The report of a Glasgow window display that included records of dispensing (p. 664) introduces a subject inviting further research. When and where did the pharmaceutical custom of keeping copies of dispensed prescriptions originate, and what existing set of such records is the oldest? Formularies, official and unofficial, have the drawback, from an historical standpoint, of telling us what could be prescribed without throwing light on the relative popularity of the many medicaments recognised. Some of the substances and preparations included may have been inserted under pressure from interested persons, and may have been generally ignored from the first. Prescription books, on the other hand, disclose combinations of drugs and chemicals actually prescribed, and afford an indication of average frequency. From time to time you have published facsimiles derived from old books of this class. On referring to a few of your volumes, I see that one set of dispensing records dates from 1829: a few of your readers may have evidence of earlier sets. A facsimile of a manuscript formula (in all probability a copy) written in the thirteenth century appeared in your Annual Special Issue of 1934. After reading the amusing prescription "of contemporary simplicity," printed last week on p. 682, one can only wonder what will be the thoughts of pharmacists who may be envisaged turning up dispensing records of the present year of grace a century hence.

Xrayser

BIRTHS

DRAPER.—On June 16, Ethel Lilian, the wife of E. Draper (sales manager, Prichard & Constance (Manufacturing), Ltd., London, W.C.1), of a son (Paul Frederick).

RODGERS.—At 35 Drumsheugh Gardens, Edinburgh, on June 22, Ivy, the wife of John Frederick Rodgers, M.P.S., 49 Great Junction Street, Leith, of a son.

MARRIAGES

Silver Weddings.—CATTO—MATTHEWS.—At Leytonstone Congregational Church, on June 23, 1919, Alexander Catto, M.P.S., to Nora, fourth daughter of the late Mr. J. H. Matthews, M.P.S., Leytonstone. Present address: Old Meldrum, Chigwell, Essex.—HUNTER—CAGGIE.—At Queen's Park Rooms, Victoria Road, Crosshill, Glasgow, on June 24, 1919, John Hunter, M.P.S., to Catherine Wood Cathcart. Present address: 473 Clarkstone Road, Glasgow, S.4.

DEATHS

BUCKLEY.—Recently, Mr. Frank Cyril Buckley, M.P.S., 49 Southend Lane, Cattford, London, S.E.6. Mr. Buckley qualified in 1927.

COLEMAN.—On June 11, Mr. Thomas Coleman, 30 Collamore Avenue, Wandsworth, London, S.W.18, aged eighty.

HANDFORD.—On June 13, Mr. Thomas Edward Handford, Ph.C., 29 Marlborough Road, Worthing, formerly of Harrogate, aged eighty-three.

JEPSON.—At Southend-on-Sea, recently, Mr. Ewart Jepson, aged seventy-four. Mr. Jepson qualified as a chemist and druggist in 1894 and was formerly in business for many years at Duckworth Street, Darwen, Lancs. He was one of the early members of the old North-east Lancashire Chemists' Association.

MONTAGNON.—On active service, recently, Pilot-Officer Hubert Etienne Montagnon, Ph.C., R.A.F.V.R., 27 Rufford Drive, Yeadon, Yorks. Pilot-Officer Montagnon qualified in 1938 and passed the Pharmaceutical Chemist examination in 1940.

PEARSON.—At Lisbon on June 23, Mr. Edward Theodore Pearson, aged eighty-two. Mr. Pearson was the founder of E. T. Pearson & Co., Ltd., Mitcham, and of Lactagol, Ltd., and for some years was an

active representative of the International Red Cross. Mr. Leonard S. Adams writes: "The directors of his companies mourn the loss, not only of an able colleague, but also of a generous friend."

PRIESTLEY.—At the Bradford Royal Infirmary, on June 22, Mr. Dawson S. Priestley, 46 Duckworth Lane, Bradford, aged seventy-two. Mr. Priestley qualified as a chemist and druggist in 1894. He retired from business (D. S. & H. C. Priestley, chemists, Bradford) two-and-a-half years ago owing to ill-health, the business being now carried on by his son, Mr. H. C. Priestley, M.P.S.

PUGH.—On active service recently, Captain E. V. Pugh, a director of V. Pugh & Son, Ltd., wholesalers, Worcester, and only son of Mr. V. Pugh, Bank Street, Worcester.

TOMPKINS.—On June 18, as a result of enemy action, Mr. Martin J. Tompkins (a director of James Tompkins, Ltd., London, E.C.1), aged fifty-eight.

WILCOCK.—On June 1, Mr. Walter Wilkie Willcock, M.P.S., 161 Gloucester Road, Bristol, 7. He qualified in 1905.

WILLIAMS.—At the Red House, Penarth, Glam, on June 21, Mr. Harold Morgan Williams, a director of F. Sievers & Co., Ltd., manufacturing chemists, Cardiff, aged sixty-one.

WILLS

SIR CHARLES VERNON BOYS, LL.D., F.R.S., St. Mary Bourne, Andover, Hants, and Victoria Street, Westminster, left £36,501, with net personality £34,041.

MR. SYDNEY RICHARD JOYCE, Birkby, Huddersfield (manager of the centrifuge department, Hopkinsons, Ltd.), left £3,094, with net personality £2,814.

MR. FRANK EWART BANNISTER, M.P.S., Stoneleigh, Stafford Road, Bloxwich, Staffs (a director of Bannister & Thatcher, Ltd., chemists) left £36,251, with net personality £31,354.

MR. BERNARD ELLIS, J.P., Church Leys, Rearsby, Leicester (late chairman of Ellis & Everard, Ltd., Ellis Chemical Co., Ltd., and Joseph Ellis & Sons, Ltd.) left £35,842, with net personality £29,744.

MR. WALTER ALEXANDER REID, LL.D., C.A., J.P., Woodbank, Cults, Aberdeen, for many years chairman of Robert Gordon's College, Aberdeen, left personal estate in Great Britain valued at £72,431.

COMPANY NEWS

SCOTTISH PHARMACEUTICALS, LTD. (P.C.).—Registered in Edinburgh.—Capital £1,000. Chemists and druggists, etc. Mary Wallace and Mrs. A. Henderson, directors. R.O.: 7 St. Vincent Street, Glasgow.

PROVEN PRODUCTS, LTD. (P.C.).—Capital £1,000. Chemists, manufacturers of and dealers in medical products, etc. Directors to be appointed. Solicitors: Richards, Utler & Co., London, E.C.3.

B. MURPHY, LTD. (P.C.).—Capital £1,000. Wholesale or retail chemists, etc. Dr. Bernard Murphy, M.P.S., and Edmond D. Aguirre, M.P.S., directors. R.O.: 213 Fairland Road, London, W.9.

W. E. REEVE (CHEMISTS), LTD. (P.C.).—Capital £2,000. Wholesale or retail chemists, opticians, etc. William E. Reeve, M.P.S., and A. P. Tait, M.P.S., directors. O.O.: 157 Ombersley Road, Worcester.

WILLIAM DALES & SON (BESWICK), LTD. (P.C.).—Capital £5,000. Mineral water manufacturers, etc. Mary A. Dales, S. D. Oldham, and Arthur Heald, directors. O.O.: 32a Philips Park Road, Beswick.

JAMES E. SMITH (WAKEFIELD), LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in chemicals, drugs, toilet and photographic requisites, etc. James E. Smith and Fred Milton, both of Kingsway, Ilkeston, directors.

STEPHEN PETTIFER & SONS, LTD. (P.C.).—Capital £9,000. To acquire the business of veterinary chemists carried on by Stephen Pettifer & Sons, Ltd. Stephen H. and Diana M. Pettifer, directors. R.O.: 100 Prudwell, Malmesbury, Wilts.

HERB-A-GENE MEDICAL PRODUCTS, LTD. (P.C.).—Capital £4,000. Herbalists, chemists, druggists, etc. Edward Hardy, 6 Lilac Avenue, Blackpool; and Frederick J. Hall, 20 Priory Gate, Lytham Road, Blackpool, directors. R.O.: 342 Lytham Road, Blackpool.

EVANS (TRETHOMAS & MACHEN), LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of druggists carried on by Trethomas and Machen by the administrators of M. V. S. Evans. Bryn R. Evans and Miss Rebecca J. R. Evans, directors. O.O.: Central Chambers, Caerphilly, Glam.

BEAULLANCH HYGIENIC PRODUCTS, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in soap, candles, disinfectants, etc. Frederick H. Carter, 13 Beaumont

Leys Lane, Leicester, and Charles R. Godwin, 7 Prebend Street, Leicester, directors. R.O.: 4 The Crescent, King Street, Leicester.

FRED MALLINSON, LTD. (P.C.).—Capital £2,000. To acquire a business of chemists and druggists formerly carried on by Fred Mallinson, M.P.S., John R. H. Newsome, M.P.S., and Norman Exley, M.P.S. (directors of new company), as "Fred Mallinson." R.O.: 28 Market Street, Heckmondwike.

CHESNEY & WILLIAMS, LTD. (P.C.).—Registered in Edinburgh. Capital £1,500. Dispensing chemists and druggists, etc. A. R. Chesney, 76 Cromarty Avenue, Glasgow, S.3; and William McWhannell, M.P.S., 6 Vardar Avenue, Clarkston, Renfrewshire, directors. R.O.: Kilmarnock Road, Newton Mearns.

VIROL, LTD..—Directors recommend payment of an ordinary dividend of 10 per cent. (same as last year).

COCKBURN & CO., LTD..—Dividend on ordinary shares for year ended March 31 is 20 per cent. (same as last year).

BOOTS PURE DRUG CO., LTD..—A final ordinary dividend of 10 per cent. is recommended which, with two similar interim payments, makes 30 per cent. for the year, against 24 per cent. in the previous year.

THE WELLCOME FOUNDATION, LTD..—Mr. A. B. Inglis, Dr. C. H. Kellaway, M.C., F.R.S., and Messrs. L. G. Matthews and J. Russell, M.C., have been appointed directors of the company. Dr. Thomas Dewar has been appointed secretary.

R. GRAESSER, LTD..—Under this style the business of N. H. Graesser, Sandycroft, Chester, has been formed into a limited company, readopting the name of its original owner. The present management will remain in charge of policy, under the direction of a son and grandsons of the founder.

DIVIDENDS..—Charles Roger (Laboratories 1938), Ltd., 12 Park Parade, Harrogate; first and final dividend, 3s. 3½d. in the £.—George Handyside, M.P.S., 40 Mandale Road, Thornaby-on-Tees: Supplemental dividend 1s. 5½d. in the £.

The Big Push..—Every scrap of waste paper is urgently wanted to feed all war fronts.

TRADE NOTES

Holiday Closing.—The office of the Ulster Chemists' Association will be closed from July 10 to July 22.

Supplies Available.—Episeps Ltd., Chapel Street, Bradford, announce that supplies of Episeps throat tablets are again available. C.F. wholesalers are carrying stocks.

Polishing Wool.—The Rabok Manufacturing Co., Ltd., Oughtibridge, Sheffield, invite trade inquiries for Rabok polishing wool for gold, silver, electro-plate, chromium, etc.

Sulphathiazole Price Reduction.—Boots Pure Drug Co., Ltd., Nottingham, announce a further reduction in prices of sulphathiazole-Boots (tablets and powder). The full scale of prices is given in an advertisement in this issue.

Shaving-cream Supplies.—J. C. & J. Field, Ltd., 22 Parkside, Wimbledon Common, London, S.W.19, ask chemists who are experiencing difficulty in obtaining adequate supplies of Field Day shaving-cream to communicate with them direct.

One Size Only.—Bob Martin, Ltd., Southport, Lancs, state that they are unable to supply the larger size of either Bob Martin condition powder tablets or Tibs, but that both products are available in the 7d. size; notification will be given when production of the other size is resumed.

Insecticide Sprinklers.—Insecto, which is described by the makers as the most efficient insecticide obtainable, is available in 3-oz. and 6-oz. sprinkler boxes from the Insecto Manufacturing Co., 28 Elmsmere Road, Burnage, Manchester, 20. Trade terms are announced elsewhere in this issue.

Veterinary Supplies Through Chemists.—Evans Sons Lescher & Webb, Ltd., Liverpool, 19, announce that they will supply freely to chemists those of their veterinary products of which the sale is restricted to veterinary surgeons (or through chemists, to persons holding a veterinary surgeon's prescription), provided any chemist requiring such products gives a written undertaking to the company that he will abide by their conditions of sale.

Business Changes

MR. W. E. PHILLIPSON, M.P.S., has removed to 761 Stockport Road, Manchester, 12.

NORTH SHIELDS CO-OPERATIVE SOCIETY, LTD., recently opened a drug and dispensing

department at premises adjoining the Whitley Bay branch of the Society.

DR. E. H. T. HOBLYN, Ph.D., A.R.C.S. A.R.I.C., A.M.I.Chem.E., has been appointed secretary of the British Chemical Plant Manufacturers' Association, 26 Portland Place, London, W.1, as from July 1.

ALLEN & HANBURY'S, Ltd., London have appointed Dr. G. R. Boyes, Ph.C., to be head of the medical department. Mr. Norman Dewey, M.P.S., succeeds Mr. E. C. Cripps, M.P.S., as pharmaceutical sale manager upon the latter's retirement after twenty-three years' service with the company.

APPLICATIONS FOR RETAIL LICENCES.—Francis Franchetti has applied for a licence to retail patent medicines at 167 Millburn Street, Glasgow.—D. L. Murray, Ltd., 192 Tottenham Court Road, London, have applied for a licence to retail photographic goods and accessories at 619-21 Duke Street Glasgow.—Mrs. Mary Gordon has applied for a licence to continue selling patent medicines and toilet goods at a business previously carried on by Mrs. J. Woodburn, 46 Dalmally Street, Glasgow.

Proprietary Articles Trade Association

Alterations to Protected List.—*Allied Laboratories, Ltd.*, Meloden brand tablets, 45's, 36s. doz., tax 6s. doz., inclusive retail price 4s. 9d.; 100's, 69s. doz., tax 1s. 6d. doz., i.r.p. 9s. 6d.; Femilan tablets, 10s. 6d. doz., tax 1s. 9d. doz., i.r.p. 1s. 5d.; 25s. doz., tax 4s. 2d. doz., i.r.p. 3s. 4d. Mycon tablets, 3s. 6d., 29s. 6d. doz. (exempt from tax). All prices strictly net. The products are distributed by Enzyme Products, Ltd., 107-11 Fleet Street, London, E.C.4. Prices of the remaining articles quoted under *Allied Laboratories, Ltd.*, in the P.A.T.A. Year Book, 1944, are also strictly net and not subject to 2½ per cent. for cash in seven days as stated.

Rybar Laboratories, Ltd., Rybar inhaler, 16s. 6d., 1s. each (exempt from tax).

Wright, Layman & Umney, Ltd.—Wright's coal-tar shampoo powders, 4d. each or seven powders for 2s. 1d. (see P.A.T.A. Year Book, 1944, p. 129).

Year Book.—The P.A.T.A. Protected List and Year Book, 1944-45, is now available. Corrected to December 1943, the List gives, as usual, the basic retail and standard wholesale prices, purchase tax per doz. and inclusive retail price of items occupying nearly one hundred pages. Restrictions imposed by the Paper Control have reduced the thickness of the book and caused modifications in the layout, but the result is a list which, from the user's point of view, is more handy and convenient than usual.

PERSONALITIES

CAPTAIN J. E. DUDDY (a director of *Entesive, Ltd.*) has recently been promoted Major, Royal Engineers.

MR. P. F. ROWSELL, M.P.S., Nutbrook, Brixham, Devon, celebrates his eightieth birthday on July 7.

MISS O. M. F. JOHN, M.P.S., 26 The Circus, Bath, gave an address on pharmacy to the Bath Business and Professional Women's Club recently.

MR. A. H. SNOWDEN, Ph.C., a member of the staff of *Allen & Hanburys, Ltd.*, London, has been elected an Associate of the Royal Institute of Chemistry.

MISS JOAN BLAMIRE, a full-time student in the pharmacy section of the chemistry department, Halifax Technical College, has been awarded, by open examination, a studentship at the University College, Nottingham, to take up a degree course in pharmacy.

MR. GEORGE HAMPTON, M.P.S., Limetree Park, Coventry, gave an address to the Coventry Rotary Club, recently, on "National Health." He recommended that surgeries and chemists' shops should be superseeded by small hospitals, which would also act as dispensaries.

ALDERMAN W. J. LEWIS, M.P.S., 39 Clarence Road, Southsea, has been unanimously elected chairman of the Portsmouth Education Committee. For some years he has been chairman of the Electricity Committee, succeeding in both offices another pharmacist in the person of the late Alderman H. E. Foster, M.P.S.

MR. E. L. HIRST has been appointed professor of chemistry and director of the chemical laboratories, Manchester University, in succession to Professor A. R. Todd, who is leaving in September to take up an appointment at Cambridge University. Mr. Hirst has been engaged on vitamin-C researches.

MISS E. F. HAYWARD, the new secretary of the National Association of Women Pharmacists, served her apprenticeship with *Boots, Ltd.*, after a preliminary training in the dispensing department of the Seamen's Hospital, Greenwich, and qualified in 1935. Since that date she has been dispensing in various London branches of the company.

MR. C. E. STEPHENS, managing director of *Stephens Bros. & Banner, Ltd.*, essential oil importers, celebrated his golden wedding

on June 27. Mr. Stephens is a member of one of the City Liveries and also of the City Livery Club. He is a Freeman of the City of London for services in the war of 1914-18. This year he completed sixty-five years in the service of the company, in which he still takes an active part.

MAJOR JOHN TREFOR RICHARDS, M.P.S., 31 De Winton Street, Tonypandy, has been appointed a justice of the peace for the county of Glamorgan. Major Richards, who is forty-eight, qualified in 1921 and entered his father's business, which he has carried on since his father's death. He is now on Home Guard sector headquarters staff of Pontypridd with the rank of Major and is also Army Welfare Officer for the Rhondda Valleys.

MR. S. BROOKS (managing director of Westminster Laboratories, Ltd.) contributed a letter to the "Lancet," recently, on the subject of "Education for Health," in which he pointed out that references in that paper by Professor Ryle to the importance of widespread health education had omitted to mention a most important section of the community, namely pharmacists, whose 15,000 chemists' shops throughout the country could become most useful centres for health propaganda.

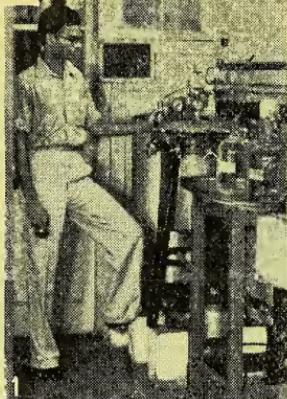
EMPIRE AND FOREIGN NEWS

Death Sentence for Italian Pharmacist.—The German radio announced recently that sentence of death has been passed in Rome on the president of the Italian Pharmaceutical Union (Alberto Coppola) for selling on the "black market" large quantities of sugar intended for pharmaceutical uses.

Sulphur from Coke-oven Gas.—A sulphur-extraction plant set up at the Ford Motor Co.'s works, Detroit, U.S.A., primarily to eliminate hydrogen sulphide from coke-oven gas in order to reduce corrosion and protect plant, resulted in the recovery of about six tons of 99 per cent. sulphur daily from the 54,000,000 cu. ft. of coke-oven gas produced in the works every four hours.

Canadian Navy Vitamin Issue.—Personnel of the Royal Canadian Navy's Newfoundland Command who "live out" are to receive a month's supply of vitamin tablets when they assemble for pay parade. Persons living in barracks will be issued a tablet a day when they sign in for meals. In Newfoundland fresh vegetables are hard to get.

A CHEMICAL WORKS IN



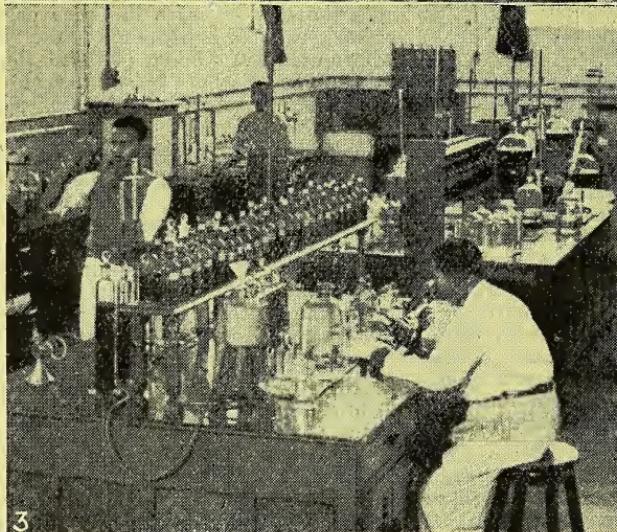
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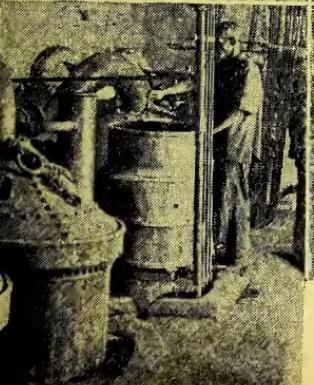
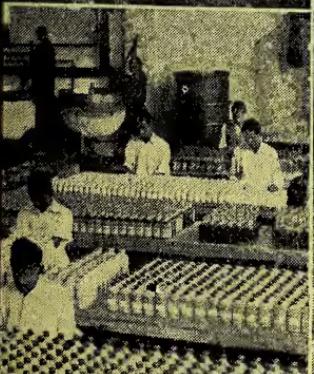
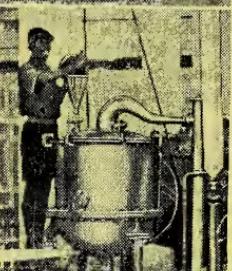
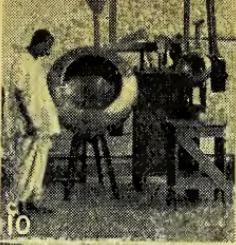


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SCENES at the works of Smith, Stanistreet & Co., Ltd., Calcutta, India. The company manufactures, packs and distributes many British and American proprietary preparations, as well as its own range of pharmaceutical, chemical and toilet preparations.

1. Autoclaving of Stanules (branded ampoules).
2. Stanule filling.
3. Assay of raw materials and chemical examination of finished products.
4. Manufacturing proprietary medicines.
5. Spirituous preparations in storage tanks.
6. Galenical works.
7. Galenical packing department.
8. Making chicken essence.
9. Battery of strychnine extractors.
10. Tablet-coating.
11. Marc recovery.
12. Strychnine department, where 75 per cent. of Empire requirements of the alkaloid are manufactured.
13. Bottling and wrapping department of bonded warehouse.



ELEVEN N.H.S. RESOLUTIONS FROM BLACKBURN

FORMAL rules of debate were dispensed with at a special meeting of the North-east Lancashire Branch of the Pharmaceutical Society at Blackburn on June 8, Mr. Emeric Eccles (president) in the chair, when discussion took place on recommendations formulated by the Branch committee for forwarding to the Society's Council.

Pre-war Conditions Not Wanted

MR. W. B. BRACEWELL said no one wished to slip back to pre-war conditions. For that reason he advocated a new scheme rather than an extension of the old one. The professional-minded pharmacist should have an opportunity of coming to the front. So many pharmacists had obtained positions governed by the Essential Works Order that their voices should be heard, and overdue emphasis should not be placed on the business side of pharmacy as they knew it today. In any full development of the new public health services they should see to it that the pharmacist had his right and proper place, and there was danger in passive acceptance of the extension idea. Health matters were developing quickly, and the Society should be ready with alternative proposals. The "professional" pharmacist would like to be assured of guaranteed hours of service after the war. No one wished to revert to the old hours.

MR. L. MOSSOP thought an extension of N.H.I. service would be acceptable if accompanied by proper safeguards. No one was satisfied with the service as it was today, but the position of the pharmacist might undergo big changes, and he thought the pharmacist of the future would have to choose either the business or the purely professional side.

MR. R. TURNBULL said pharmacists had a dual responsibility. They must consider not only their professional interests, but also the general well-being of the public. From this angle the authorities would act.

THE CHAIRMAN said he did not think the Government would consider anything more than an extension of the existing system. He wanted North-east Lancashire to put forward recommendations for the Society to consider. He did not want pharmacists to be overlooked in any future development of health services, but he believed the rank and file of members would prefer the extension principle, provided it was on the right lines. Apparently there were some who thought otherwise, and, if the meeting was so minded, a minority report could be

drawn up. Undoubtedly, in the new type of health centre an opportunity would be given for the pharmacist to play his part. He asked members to deal with the issue on principle and to leave remuneration to the present.

MR. W. H. LIGHTBOWN, supporting the extension system, said health service would grow, and the interests of the pharmacist in relation thereto must be watched. The Society had already done a good deal in securing the qualified man in the hospital and elsewhere.

MR. W. HOLT said obviously there was no need for the qualified man in the modern small clinic, where all they did was to dispense cod-liver oil, orange juice, etc.

MR. W. POMFRET (dispenser at the Royal Infirmary) outlined the new health centres visualised by the White Paper, and hoped qualified men would have a place there.

MR. H. BALMFORTH, Darwen, said that in all these matters they were looking at the dispensing side of their business. He considered the public were well satisfied with things as they were, and at some of the established health centres the authorities were finding it was not economical to do dispensing. Specialised work was quite another thing. He agreed that it was advisable to arrange matters between themselves before negotiating with the Government.

MR. MOSSOP: In the health centres referred to in the White Paper there is no reference whatever to the pharmacist.

Summing up the debate, THE CHAIRMAN said the secretary (Mr. F. Gillibrand) was author of the proposals placed before the meeting. One vital argument in favour of an extension was that, after the war, the Government would have so much on its hands that there was a likelihood of matters being skimped. Health centres might be one of them. He suggested that the Pharmaceutical Society, the National Pharmaceutical Union, and the National Health Administrative Committee should be informed that they approved the extension principle, but that there were certain improvements which could be introduced which would give the pharmacist better conditions of service than previously.

Extension Principle Approved

The extension system was approved by a large majority, and details of pharmaceutical service were then discussed piecemeal. THE CHAIRMAN said a qualified man should be assured of a living wage for State

ispensing if he were not in business on his own account. The committee thought that, when a pharmacy dealt with more than a reasonable number of prescriptions yearly the proprietor should be compelled to engage a qualified man to assist him, with remuneration according to his qualifications.

A MEMBER: We want to insist that the sale of all medicine to the public should come through the qualified man.

THE CHAIRMAN: Will it be to the public good, and the eventual good of the pharmacist, if the qualified man spends all his time on the work he was specially trained to do?—MR. LIGHTBOWN: Yes, if the remuneration is sufficiently attractive.

MR. R. TURNBULL: We can place too much stress on National dispensing and too little on the professional work behind the counter. There is nothing illegal in a person choosing his own drugs to meet his own requirements.

mechanism of Restriction

MR. W. H. LIGHTBOWN (advocating some restriction on the opening of new pharmacies): One of the curses of the past has been that a man builds up a good business by hard work, and then someone opens in opposition and reduces his turnover.

MR. TURNBULL: Control of apprentices is the most effective way of curing an oversupply in the profession.

MR. T. D. DUXBURY (for the apprentices) said 90 per cent. of present-day apprentices favoured a higher qualification. The purely business side did not appeal to them. The number of apprentices entering the profession nowadays was dwindling rapidly because, he suggested, the young people were not being properly catered for. Facilities for the higher qualification were few.

MR. F. GILLIBRAND said there were cases on record where apprenticeship certificates had been cancelled and a youth transferred to a more suitable place where it had been shown that he was working under unsatisfactory conditions. The present shortage of apprentices was due to the matriculation standard required on entering the profession. He agreed that it would be unfair to lessen the qualifying examination.

MR. MOSSOP: Apprentices should have some committee to represent their interests.

THE CHAIRMAN: That is covered by the branch accepting student-associates.

MR. TURNBULL said it would be difficult to apply advertising to pharmacy.

MR. MOSSOP: I do not think the pharmacist has any need to advertise dispensing.

MR. LIGHTBOWN: The advertisement

which infers that one man's prescribing is better than another's is unprofessional and not tolerated among doctors.

MR. TURNBULL said in these days people were finding it difficult to follow their many duties, and he suggested this should be borne in mind when making contracts for 1945. Shop hours should be curtailed.

Recommendations on N.H.S.

The following recommendations for incorporation in a proposed new health service were agreed upon:

1. That the service be devised in such a manner that the pharmacist shall regard dispensing as his primary occupation and means of livelihood.

2. That a committee of pharmacists, similar in function to the present Pharmaceutical Committees, be the machinery for controlling the status of pharmacy.

3. That existing pharmacies shall be regarded as forming the basis for commencing the pharmaceutical service in the proposed new health service, and that the committee envisaged in the preceding paragraph shall control the opening of new pharmacies in so far as contracting with the new health service is concerned.

4. If the committee should direct a pharmacy to be opened in any sparsely-populated district, a State subsidy be granted to that shop in lieu of fees, until such time as the dispensing has reached an economic level over a period of three years.

5. That a maximum number of prescriptions be fixed for each pharmacist, which will assure that, when a certain maximum of dispensing had been achieved over an aggregate of three years, a further qualified pharmacist be employed in that shop.

6. That apprentices shall be restricted to one per qualified man (enforcement of this to be left to the Pharmaceutical Society).

7. That post-graduate courses in pharmacy be arranged in all schools of pharmacy.

8. That the committee be empowered to prevent new pharmacies participating in the health service in areas more or less built up and adequately catered for, and shall have power to direct the enlargement or alteration of existing pharmacies to suit district requirements.

9. The committee shall have full powers to inspect all pharmacies in the health service, and to maintain a state of order and cleanliness and equipment as they deem necessary for the amount of State dispensing which is carried out.

10. That in the granting of licences for new contractors (i.e. new pharmacies), the present ratio of multiple, co-operative, and private pharmacies be maintained for a period of seven years, or until such times as the economics of State dispensing can be assessed.

11. That all advertising of dispensing or of the drugs used therein shall be prohibited (other than the announcement of the fact that State dispensing is carried out), and that the State shall issue a suitable sign for the exterior of the shop.

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Official organ of The Pharmaceutical Society of England, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

OL. CXLI JULY 1, 1944 NO. 3360

he fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

A Pricing Point

NTIL comparatively recently pharmacists who were called upon to dispense sulphathiazole were compelled to use one of very few proprietary preparations issued under trade names coined by the makers. Even then the supply was restricted because a large percentage of the output was reserved by the Government for military use. The supply position is now a good deal easier, not only because the manufacturers referred to have been able to release a larger output for civilian purposes, but also because a new manufacturer has entered the field with a preparation (unbranded except for the maker's own name) at a somewhat lower scale of prices. Price reductions in the original preparations have been announced, but they still do not come down to those of the new product. The doubt has arisen in the minds of some chemists whether now, when a doctor prescribes sulphathiazole, they are in order in supplying the proprietary preparations of special name, or whether they will be allowed payment only on the basis of the compound marketed simply as sulphathiazole. We are given to understand from

an authoritative source that, so far as National Health Insurance prescriptions are concerned, it is sufficient for the pharmacist to mark on the prescription the name of the preparation he has actually supplied, and that payment will be allowed on this basis.

A Hint to Buy Cautiously

The point has a special interest in view of the possibility that, after such prolonged shortage, chemists may have tended to over-order, and thus be left with supplies on their hands which were bought at the pre-reduction price. They will, of course, be credited only according to the price prevailing at the time of the transaction, but at least they can be assured that the goods will not become "dead stock." In recent times, price reductions have not been numerous. The tendency of prices has been generally, although admittedly not sharply, in a rising direction. Now, with the end of hostilities more clearly in sight, the prospect of a reversed tendency is not to be ruled out. Wise buyers will take note of the situation and organise their purchasing with this in mind.

War Damage Repairs—New Procedure

FOR the past three years the War Damage Commission has been called upon to promote essential repairs to many thousands of war-damaged houses, factories and other buildings. Meeting with unparalleled difficulties with regard to labour, materials and conditions of work and lack of staff necessary to check specifications or estimates in advance, the Commission was forced to adopt a system which, while it resulted in speeding up the work, provided little or no opportunity for checking the correctness of claims as due to war damage nor the amount claimed for the work done and materials supplied. Broadly, the system was for the claimants to get the work done, submit the builder's accounts, and receive payment.

Damage Over £250 in Value

The Commission has now published a pamphlet (Form ROD 1) explaining the new procedure to be adopted on August 1

next in arranging for the repair of war-damaged properties where the cost of works is likely to be £250 or more. Claimants or their representatives will be required to lodge with the Commission particulars of the works it is proposed to carry out and obtain the Commission's agreement *in advance* as to the terms upon which payment will be made. Generally, the three commonest methods of arriving at the basis for payment are:—

1. By means of a lump sum price determined as a result of competitive tenders.
2. By means of prime cost plus a fixed fee.
3. By means of prime cost plus a percentage.

Preferred Method of Payment

The Commission is anxious that as many cases over £250 as possible should be dealt with on a lump sum basis. Arrangements have been made whereby tenders may be brought to the Commission for examination and for consultations with claimants with the object of reaching agreement as to the amount that will be paid. The Commission strongly favours claims based on competitive tenders but appreciates that there are many cases in which it is impossible to arrive with sufficient accuracy at the probable cost. In these cases the "prime cost plus a fixed fee" is favoured. In areas where war damage is considerable, the Commission is appointing officers to facilitate consultations with claimants on all points of doubt.

Claimants or their representatives, in all cases involving over £250, are therefore invited as soon as they are in a position to commence the repairs to consult the Commission as to the basis of terms upon which the work should be done and, wherever possible, to agree with the Commission in advance the amount involved.

Agreement by the Commission to a specification of works is not to be mistaken for permission to proceed with the job. The onus will always be on the claimant or his adviser to obtain the necessary licence or consent before putting the work in hand. Copies of the pamphlet, Form ROD 1, may be obtained from H.M. Stationery Office.

Synthetic Rubber in Russia

In 1918 the young Soviet State, recognising the urgent need for rubber which then existed, decided to hold a conference of scientists to discuss its possible synthesis. Unfortunately, internal troubles prevented any progress until 1926, when the U.S.S.R. announced a world competition for the best work on synthetic rubber production. Prizes were won by Bysov and Lebedev, who each put forward a process. Bysov's method (to obtain butadiene by pyrolysing naphtha products) is, with some changes, now being used in the United States. Lebedev's process, which, after further investigation, was adopted in Soviet industry, consists of the catalytic transformation of alcohols into butadiene and polymerisation of the refined product (by means of metallic sodium) into a rubber-like material. As the result of current war needs for spirit, synthetic alcohol for butadiene manufacture is being made in Russia from non-nutritive raw materials such as ethylene. Butlerov's by polymerisation of isobutylene, obtained rubber-like polymers available under the names of Oppanol and Vistanex.

The products mentioned have each different composition from natural rubber and the fact was regarded as anomalous until Lebedev pointed out that rubber synthesis need not aim at reproduction of all the properties of the natural material. On the contrary, the aim should be, he argued, to create materials possessing, in addition to the basic properties of a rubber-like substance (e.g., plasticity and elasticity), other special properties differentiating it from natural rubber. This view has resulted in the making of new rubber-like compounds, each with a certain minimum of elasticity, but having such additional properties as insolubility in the solvents of natural rubber, increased impermeability to gases, increased heat resistance, etc. Among the new products are Oppanol (polyisobutylene), Koroseal (plasticised polyvinyl chloride), a rubber of the Buna type (product of the co-polymerisation of butadiene with styrene or acrylonitrile), butyl rubber (product of the co-polymerisation of isobutylene and butadiene), etc.

MAXIMUM FINE FOR STRYCHNINE OVERDOSE

Bolton county police court on June 26, Aller & Riley, Ltd., 17-19 Bradshawgate, Bolton, were fined a maximum penalty of £10, plus £15 15s. costs, for selling a poison (strychnine) named in Part I of the Poisons Act, 1933, in a medicine dispensed otherwise than under the direct or personal supervision of a registered pharmacist. The prosecution arose out of an inquest upon a woman who died from taking the mixture (see *C. & D.*, April 29, p. 464).

Inflicting Evidence

It was stated in court that the patient, a woman of between forty and fifty years of age, was supplied with a bottle of medicine dispensed to a prescription written by a medical man for a simple iron and strychnine tonic mixture. Strychnine could have been present to the extent of 0.027 in each dose, but in point of fact the quantity found was about 100 times the amount. The bottle was handed over to a sixteen-year-old girl, who had taken the prescription on the day before the mixture was dispensed. The only other person who appeared to have been present in the shop for any length of time about the time of the transaction was a woman aged forty-one. Neither assistant was qualified, but it appeared that there had been no qualified chemist continually on the premises for about eight weeks previously.

A qualified pharmacist had acted as manager, but he had left considerably earlier. During the interval the managing director of the company (a qualified pharmacist and the registered superintendent of the business) visited the shop once or twice a day for short periods, but did not know that this prescription had been dispensed on the premises. Evidently, stated the prosecution, the dispensing was performed by one of the unqualified young women, and almost certainly by the sixteen-year-old girl, though there was some conflict of evidence at the inquest. Instead of taking a dilute solution she used solid strychnine, and to get it she must have obtained the key of the poisons cupboard.

Statement by the Defence

For the defence it was stated that the company had been in business for many years, and had fifteen branch shops. In every one except the shop in question there was a qualified pharmacist. In this one instance the company had been trying to place the man who had left and had been

in correspondence with a qualified person who did, in fact, arrive on the day of the occurrence. During the intervening period the managing director had visited the shop two or three times daily and it was urged that there was no irresponsibility. The strictest instructions had been given to both girls to communicate with this director when there were any prescriptions they were not entitled to dispense. For some inexplicable reason this mixture had been dispensed by one of the two girls in his absence. One of the girls was "a qualified dispenser recognised by the National Health Insurance," and had worked for four years with another chemist before joining the company. Defending solicitor maintained that if a qualified pharmacist had been on the premises he might have had to leave the shop temporarily and the prescription might have been made up in his absence. One could, he said, even imagine a pharmacist himself making a mistake. The employer was in a difficult position in that he was held responsible for any person in his shop who did anything foolish, no matter what instructions had been given. Asked if the directors had no knowledge which assistant dispensed the drug, he replied, "Both girls went into the witness box at the inquest and said they did not make up the medicine." To a suggestion that there was access to the drug cupboard and that the supervision had been so grossly careless that it was not even known who dispensed the wrong drugs, defending solicitor urged that no one in the position of the managing director would contemplate that an assistant would interfere with the poisons box at all.

Chairman's Remark

A report to the Bench of previous convictions mentioned a fine of £6 17s. plus costs, at Leigh in 1937 for an offence similar to the one under trial (stated by the defence, later in the proceedings, to have concerned a bottle of proprietary medicine); convictions at Bolton in January 1938, January 1939, and October 1940, for selling drugs below the required quality; and at Radcliffe in May 1944 for offering for sale controlled goods subject to the condition that other goods were purchased. Announcing the magistrates' decision, the chairman stated "the consequences of this offence were or might be so serious that to me the maximum penalty seems inadequate."

INSURANCE ACT DISPENSING

Eastbourne.—The numbers of insured persons on the register of the county borough in the years 1939-44 were as follows: 1939, 23,415; 1940, 25,604; 1941, 21,907; 1942, 17,259; 1943, 16,322; 1944, 14,953. The number of prescriptions chemists dispensed in 1944 was less than half the 1939 total.

Edinburgh.—Recently, at a meeting of the Burgh Insurance Committee, it was reported that five more pharmacies had been compelled to close owing to shortage of staff, bringing the total to fifteen closed in Edinburgh since the war began. Increase in the number of women in insurance continued, the figure being 40,000 for 1943, during which year the number of men in insurance decreased by 31,000. The marked drift of insured persons from Scotland to England which was taking place before the outbreak of war was again evident, the figure for 1943 being 14,553 transfers from Scotland to England, against 10,988 from England to Scotland.

Hampshire.—At a recent meeting of the Insurance Committee, a letter was read from Mr. H. W. West (manager for W. M. Robertson, Ltd., Botley), who wrote stating that his one remaining assistant, whom he had been training for over five years, was to be directed to higher priority work and that deferment could not be continued. Mr. West pointed out that he could not carry on the business single-handed, and the meeting learned that he had been doing the dispensing at both Hedge End and Botley since the pharmacist at Hatch End had been called up. The Clerk stated that he had written to the Ministry of Health and the Central Pharmaceutical War Committee, advising them of the possibility of a breakdown of the Insurance Committee's medical arrangements in Botley and Hatch End if Mr. West's assistant was withdrawn.

West Sussex.—At a recent meeting of the Insurance Committee it was stated that a chemists' rota had been organised by chemists in Chichester and Bognor. The Chichester scheme provided for one chemist's shop to remain open for dispensing of medicines up to 7 p.m. on weekdays, and from 11.30 a.m. to 12 noon and 6-7 p.m. on Sundays. The Bognor rota provided for the opening of a pharmacy from 12 noon to 1 p.m., from 6-7 p.m. on Sundays, and from 6-7 p.m. on early closing days. The schemes were approved subject to the extension of the Chichester rota to 7.30 p.m.

RECENT RESEARCH

Sulphonamide Spectra.—A method for the quantitative spectrophotometric determination of sulphonamides in pure solution described by Cimineri and Wilcox in the "Journal of the American Pharmaceutical Association" (XXXIII.3.85), and a scheme is advanced for differentiating between sulphonamides, utilising data set forth in series of tables drawn up by the authors.

Particle-size Meter.—A sub-sieve "sizer" for measuring particle sizes too small for measurement by means of a sieve was described in "Chemical and Metallurgical Engineering" (February). The instrument operates on the principle of air permeability. It includes an air pump, air-pressure regulator device, precision-bore sample tube flow meter, calculator chart, and accessory equipment. The motor-driven air pump builds up pressure to a constant head assuring a uniform flow of dry air through a packed powder sample. The average particle size of the sample determines the rate of air-flow, which is read off directly from the calculator chart. The range of particle sizes measurable with the instrument is from 0.2 to 50.0 microns.

Effect of Acidity on Antiseptics.—Rahman and Conn ("Industrial and Engineering Chemistry," 1944.I.185) demonstrate that benzoic acid and salicylic acid, regarded as antiseptics, are nearly 100 times as efficient in strongly acid as in neutral solutions. In fact, while efficient in preserving acid foods, they are practically useless in neutral solution. Weak acids are almost completely dissociated in neutral or alkaline solution, but remain virtually undissociated in a strongly acid medium; and the authors show, by means of experiments with wine yeast, that the undissociated acid is toxic, while the ions are not, a phenomenon already known to be true for lactic acid. The remarkable difference in action in this respect between the dissociated acid and its ions seems to be due to ready diffusion of most undissociated weak acids into the cell, whilst the penetration by ions is slow and complex. Sulphurous acid is in a somewhat different class, as it is dibasic and has two dissociation constants. Here again, however, the efficient principle is the undissociated H_2SO_3 molecule. 7 mgm. per 100 mils is lethal to yeast, but 70 mgm. per 100 mils is needed to kill *B. coli*. On the other hand, whilst 10 mgm. per 100 mils will inhibit growth in *B. coli*, only 0.4 mgm. per 100 mils is needed to kill multiplication in yeast.

PHARMACIST CANDIDATES FOR EIRE SENATE

candidates in the present Eire Senate elections, Messrs. John Richard Shanahan, P.S.I., Castleisland, co. Kerry, and Philip A. Brady, M.P.S.I., Dublin, were nominated by the Council of the Pharmaceutical Society of Ireland at a special meeting which it held on May 23. An election committee, of which Mr. C. J. Cremen (resident of the Society) is chairman, has been formed, and a campaign is now in full swing to secure the return of at least one of the pharmaceutical candidates to the second Chamber. In view of the urgency of having a Pharmacy Bill in keeping with modern conditions and requirements introduced at the earliest possible date, it is very important for the profession to have the representation it can get in the new Senate. A special appeal is now being made to chemists all over Eire to do their best to secure high preferences for the candidates from the deputies, county and borough councillors in their areas.

Candidates

MR. SHANAHAN, who is a Kerry man, began his career in pharmacy when he became apprenticed to his brother-in-law, Mr. Edmond Collins, M.P.S.I., Killorglin. From Killorglin he gained further experience at Blairs, Patrick Street, Cork, and Crowley's, Tralee, qualifying as a Licentiate in October 1924. Shortly after qualifying he opened his own business in Castleisland. Shanahan took an active part in the fight for independence in Kerry, and was severely wounded in action. This places him in a strong position to secure support from the many deputies and councillors associated with the fight for independence, and there is every reason to believe he will attract a good poll. He is a man of outstanding ability and, if elected, should make a Senator of high capability.

MR. BRADY, who is a county Meath man, having settled in Dublin business life, has a splendid record of achievement in both pharmaceutical and public affairs. As president of the Irish Drug Association from 1936 to 1940, he did invaluable work furthering the trade interests of pharmacy. On the professional side he has served with distinction for several years

on the Council of the Pharmaceutical Society of Ireland, of which he remains a member. As treasurer during a long period he was one of the stalwarts who kept the Photographic Dealers' Association going in Ireland. Outside pharmacy he

fills many important public offices. He is a councillor of the Dublin Corporation, and a member of the Boards of the Meath and St. Lawrence Hospitals, Dublin. He is also on the board of the Sunshine Home, Stillorgan, co. Dublin. Some time ago Mr. Brady was made a Peace Commissioner of Eire.

On behalf of the candidates' election committee, Mr. C. J. Cremen (the chairman, and president of the Pharmaceutical Society of Ireland) has sent the following communication to every member of the Society:—

As you are no doubt aware, your Council has nominated Mr. John R. Shanahan, M.P.S.I., Castleisland, co. Kerry, and Mr. Philip A. Brady, M.P.S.I., Dublin, as candidates in the present Senate elections. From many points of view, both men are admirable candidates and, with wholehearted co-operation from every member of the Society, the return, of at least one of our nominees should be assured. If we are to hasten the introduction of much-needed and long-overdue pharmacy legislation, every effort must be made to get all representation possible in the Oireachtas. The grave abuses pharmacists are suffering today through unfair trading, and the indiscriminate issue of 1908 licences, can only be remedied when your Society is given power to deal with these things through a new Pharmacy Act. You can help immeasurably to hasten that day by doing your utmost to secure first or next highest preferences for our candidates. Please get to know the Deputies and county or borough councillors in your area on the Senate electoral panels with the least possible delay, and do all you can by personal canvass, and through friendly contacts, to secure support for Mr. Shanahan and Mr. Brady. Our candidates are retail pharmacists of many years' standing, who have had the interests of our profession at heart. Help them to help pharmacy as a whole by getting to work early to secure the highest preferences possible. Please let us know as soon as possible what you have done, and any way in which we can co-operate with your efforts. Particularly do we rely on the local Pharmaceutical Associations to throw their full weight into securing support for pharmacy's candidates, and to organise a strong campaign in their respective areas to this end. With all earnestness we ask your fullest personal co-operation in this matter so vital to the future of our profession in the difficult post-war years ahead.

Misnamed by "Beachcomber."—They say that the new chemical compound, diethylene-sodium-misdithiocarbamate (Benzene to you and me), is death to fungi.—From the London "Daily Express."

RECRUITMENT IN EIRE DRUG WORKS

by D. W. P. Boyd, M.A., F.C.S., R.D. (a member of the Council of the Pharmaceutical Society of Ireland)

THE Pharmaceutical Society of Ireland was founded with the dual object, according to the Pharmacy (Ireland) Act, 1875 (under which it was brought into being), of examining persons desiring to keep open shop for the purposes of retailing, dispensing and compounding poisons and medical prescriptions; and of registering, after examination, persons found to possess a competent practical knowledge of pharmaceutical and general chemistry, and other branches of useful knowledge, as fit persons to keep open shop for dispensing and compounding prescriptions of duly qualified medical practitioners. It will be noted that, although today the Society possesses fine Schools for giving instruction in the subjects in which candidates are later to be examined, teaching was not one of the Society's original functions. Instead, a system of apprenticeship was recognised and legalised, and its form and duration defined, whereby instruction is given to the pupil by his employer. The system, together with the schools already mentioned (which were opened later), has provided instruction which, up to the present time, has been recognised as adequate for the needs of the pharmacist keeping open shop.

Position of the Manufacturer

What, however, is the manufacturer's position? He requires a pharmacist possessing "competent practical knowledge" of a vastly wider field of subjects than those needed by the retail chemist. His work consists, not in "the dispensing and compounding of prescriptions," but in manufacturing a large number of preparations that will later be used as ingredients in the compounding of prescriptions by his fellow pharmacists in retail business. Who is to train such a man? Who is to do the examining? A glance at the Pharmacopoeia of today reveals that a very different state of affairs exists from that which obtained in the days of its 1867 prototype, which was in use when the Society was formed. The introduction of better means of extraction, and new methods of assay and standardisation, have combined to yield products of greater uniformity and permanence. A host of new processes, for both preparation and analysis, are now included which cannot be carried out in a retail pharmacy. In addition, a visit to any manufacturing laboratory reveals that there is a bewilder-

ing assortment of pharmaceutical plant and machinery with which the average pharmacist is unfamiliar, and of which the working principles must be mastered before drugs can be produced in accordance with the instructions of the Pharmacopoeia. There is also a large amount of analytical work to be carried out, much of it requiring the use of instruments which the average pharmacist has little opportunity, and less need, to use, and which must be performed on each batch of products before the manufacturer can release it for sale. For the present pharmaceutical qualification is inadequate. Nor do the Universities appear to offer any solution (an applicant holding an Honours B.Sc. degree recently stated that he had never heard of the Pharmacopoeia, and had never carried out anything approaching an alkaloidal assay!).

Manufacturer's Dilemma

It would appear that the only way out of the difficulty is for the manufacturer himself to train the student, but in this he at once finds himself in a serious dilemma. He must be prepared to devote a long time (probably a minimum of ten years) to the training of a candidate before the latter can be regarded as competent to take charge of manufacturing work. This means that he must secure his pupil while he is still fairly young. Unfortunately, should he do so, the pupil finds himself after all his training without any recognised qualification. If, on the other hand, the manufacturer feels it desirable that his pupil should possess some qualification, he must either (a) allow him first to obtain the pharmaceutical Licence qualification, with its requirement of an apprenticeship of four years to a pharmacist keeping open shop, when these four years—probably the most important years of the student's life—should have been spent in the manufacturer's own laboratory, learning the rudiments of manufacturing technique (the four years would be largely wasted from the manufacturer's point of view, since there would be a great deal for students to "unlearn" before starting to fathom the intricacies of large-scale production), or (b) employ a man possessing a University Science degree, i.e. a person also several years above the ideal starting age, and train him in pharmacy and other kindred subjects, about which his knowledge may be nil.

What, then, is the solution to the

ficulty? There would appear to be little doubt that the Pharmaceutical Society would be in a position to instal and house a great deal of expensive and complicated pharmaceutical plant and analytical apparatus solely for the training of the handful of candidates needed for the strictly limited number of vacancies in manufacture. But the Society could, perhaps, introduce legislation that would give recognition to the manufacturing laboratory as a logical place in which a candidate for a post as manufacturing chemist should receive his practical training. The Society could itself provide suitable instruction in the theoretical side of the subjects with which the student will be occupied during his lifetime, for which an examination could be held to admit successful candidates to a qualification which, while not entitling the holder "keep open shop," would yet be of considerable value both to himself and to the manufacturer who employs him. The suggested qualification should, incidentally, materially raise the status of pharmacy in general.

Subjects for Instruction

In addition to the subjects already included in the pharmacy and chemistry courses of the Society's schools, but omitting certain items that do not concern students entering manufacturing pharmacy, instruction should be given on the theoretical side of the following subjects, the practical instruction being arranged by the manufacturer to run concurrently, so far as possible, in his laboratory. Only manufacturers who can satisfy the Council that they can offer suitable facilities for instruction should be permitted to make apprenticeship contracts:—

CONCENTRATION OF AQUEOUS AND ALCOHOLIC EXTRACTS.—Work under reduced pressure, and specified temperatures, including the relationships between pressure and temperature in boiling aqueous fluids, and the working principles of vacuum plant and its upkeep.

EMULSIFICATION, HOMOGENISATION, ETC.—This would include the production of modern-type emulsified ointment bases and the study of various types of colloid mills.

DISTILLATION.—This is increasingly important in view of the modern practice of preparing liquid extracts of concentrated alcoholic liquors and redissolving the resulting extract in a reserved portion of percolate. It includes also the recovery of alcohol from marcs, etc.

SAPONIFICATION.—The production of the official soaps, study of the reactions involved, and of calculations based on chemical equivalents.

EXTRACTION.—Uses of percolation, macera-

tion, etc. Design of plant, digesters, etc., and soxhlet principles. Tests for total extraction (alkaloids, etc.).

DISINTEGRATION.—Grinding, screening and dressing of powders of vegetable origin, especially those intended for extraction by percolation.

STERILISATION.—Uses of autoclaves and other pressure apparatus, and the relation between steam pressure and temperature; study of bacteria-proof filters.

COMPRESSION.—Making of tablets and preparation and granulation of materials for compression; also pill-making and coating.

MILLING.—Preparation of ointments, creams, etc. Uses of various types of machines; emulsification of mercury for ointments.

FILTRATION.—Uses of asbestos, kieselguhr, etc., and design of various types of apparatus used in clarification.

Facilities should also be available for, and instruction given in the carrying out of, analytical determinations, such as:—

ESTIMATION OF ALCOHOL CONTENT.—Tinctures, etc.; this is important for Excise purposes.

ASSAY OF ALKALOIDS.—Nux vomica, cinchona, opium, belladonna, etc., and their preparations.

QUANTITATIVE ESTIMATION.—Methods as applied to arsenic, ethyl nitrite, iodine, ferrous iodide, hydrogen peroxide, hydrocyanic acid, camphor, ferrous phosphate, etc.

OPTICAL ROTATION.—Its application to essential oils, oxymel scillæ, etc.

SPECIFIC GRAVITY.—Use of coefficient-of-expansion tables.

REFRACTIVE INDEX.—Figures for oils, fats and waxes.

HYDROGEN ION CONCENTRATION.—Values.

VISCOOSITY.—Dynamic and kinetic viscosity and their relations.

The student should also receive instruction in the Customs and Excise regulations relating to the use, storage and recovery of both rectified and methylated spirits (the use of the latter being permissible for a variety of purposes under specified conditions); preparation of liniments, extracts, etc.; determination of alcohol content and conversion of the figures into Proof Gallons for the purpose of returns. It has been suggested by some that many of the foregoing subjects should be included in the course for the ordinary Licence qualification, but it will be appreciated that not only are there no facilities for giving the practical instruction to a large number of students, but, generally speaking, there is little need for the pharmacist in retail business to possess such knowledge. For the Society to seek legislation to deal with the problem on the lines indicated would, however, be a step in the direction of meeting a need long felt.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, June 28

WHILE conditions in the drug and chemical markets continue fairly steady, the volume of business being transacted is restricted and composed mostly of smallish spot orders. No price movements of importance have occurred. In PHARMACEUTICAL CHEMICALS, makers report a routine demand, with no changes in ruling rates.

A moderate consuming trade in DRUGS is reported, with prices well maintained. Some small business is being done in AGAR at the official price. Cape ALOES will be dearer when available; a parcel of Curaçao is stated to be afloat. BALSAM TOLU is not available, but allocations have been granted. A few odd cases of CAMPHEPHOR are selling to approved users. CHILLIES is steady at the previously mentioned price. DIGITALIS is unchanged. New allocations are reported to have been granted for ERGOT. GUM ACACIA is steady and unaltered. MENTHOL is in good inquiry, but supplies are restricted and prices nominal. The higher figure noted last week for flat high-dried RHUBARB seems to have brought out a few odd lots. SEEDS are dull, with values unchanged; dealers report a few small inquiries. TRAGACANTH continues in demand, but prices are without quotable change on the week. Quiet and steady conditions obtain for TURMERIC.

Little of interest has occurred in ESSENTIAL OILS. Business in most of the "free" oils is negligible on account of lack of supplies. No alterations in prices have been notified for controlled oils. ANISE (STAR) and PEPPERMINT continue in good request, but supplies are difficult to find and prices are nominal. English distillers' prices for CLOVE and NUTMEG are unchanged. EUCALYPTUS is short, but the price is steady. GINGERGRASS and PALMAROSA may be obtained in small compass on spot.

Pharmaceutical Chemicals

ALLOBARBITONE.—Makers' quotations steady at 6s. per lb.

AMPHETAMINE.—Makers' price is unchanged at 15s. per lb.

BARIUM SULPHATE, B.P. (x-ray).—Quoted at the following rates per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BORAX.—Makers' current rates are as follows: B.P. quality, granulated, £42 per ton; crystals £43; powder, £43 10s. Packed in one-cwt. bag delivered carriage paid in Great Britain in one ton lots and upwards. Commercial grades, per ton less.

CODEINE.—Makers' prices per oz. are as follows: ALKALOYD.—½ oz., 48s. 3d.; 1 oz. 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 6d.; 4 oz. 43s. 3d. HYDROCHLORIDE.—½ oz., 42s.; 1 oz. 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; 4 oz., 37s. PHOSPHATE.—½ oz., 37s. 9d.; 1 oz., 35s. 3d. 2 oz., 33s. 9d.; 3 oz., 33s.; 4 oz., 32s. 9d.

ETHERS (METHYLATED).—Certain gravities are no longer available, and prices of others have been adjusted. Details were given in the C. & D. June 3, p. 607.

LACTATES.—Prices are as follows: LACTIC ACID.—Six-winchester lots, 2s. 10d. per lb. smaller quantities, 2s. 11d. CALCIUM LACTATE.—Small quantities, 2s. 3d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 5d. per lb. 14-lb., 3s. 2d.; 28-lb., 3s.; granular, one penny per lb. extra.

PHENOLPHTHALEIN.—Makers' prices are steady as follows: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d. 1 cwt., 4s. 2d.

THEOBROMINE.—Current rates per lb., for quantities of 7 lb.—28 lb., are as follows (subject to D.M.S. approval): ALKALOYD, B.P.C. 43s. 6d.; SODIUM SALICYLATE, 25s. 6d.

Crude Drugs

AGAR.—Some small business is being done at the controlled price of 30s. per lb.

ALOES.—Curaçao, spot, 45s. per cwt.; parcel is reported afloat. Cape, when available will be dearer.

AMMONIACUM.—Ordinary drops are available on spot at 2s. per lb.

ANTIMONY.—English minimum 99 per cent. regulus is priced at £120 per ton, delivered, and 70 per cent., for the home trade, at £100 per ton, delivered.

ARECA NUTS.—Small quantities of Ceylon are offered by dealers on spot at 115s. per cwt., ex-store.

BALSAMS.—Peru is steady at 7s. 9d. per lb., and Canada at 10s. Tolu and Copiba are unobtainable.

BELLADONNA.—Indian leaves nominal at 5s. 3d. per lb.; Indian root, with an alkaloidal content of 0.36 per cent., may be had at 33s. per cwt.

BENZOIN.—Price is steady; small supplies of Sumatra would be about £35 and upwards per cwt. Some Siam almondly block is reported available, for which £55 is being asked.

BUCHU LEAVES.—Limited supplies are priced in spot at 5s. 3d. per lb.

CAMPHOR.—Chinese crude in limited compass may be obtained by approved users at 10s. per lb.; similar quantities of B.P., 11s. 6d. A few odd cases are being sold.

CARDAMOMS.—Aleppy greens are quoted on spot at 5s. 6d. per lb.; Aleppy seed at 6s. 6d.; and split seed at 5s. 6d.

CHAULMOOGRA.—*Hydnocarpus*, spot, in tins 1 cases, 1s. 6d. per lb.

CHILLIES.—The only variety offered is Momasa, spot price of which is steady at 11s. 6d. per cwt., sellers.

CLOVES.—Zanzibar, on the spot, 1s. 3d. per lb., buyers; to arrive, unquoted.

COCOA BUTTER.—With the exception of those or sales made under Ministry of Food licence, prices are fixed at 1s. 5d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—Maximum official sales price remains at 49s. per cwt.

COLOCYNTH.—May be obtained on spot at 1s. 10d. to 3s. per lb.

DIGITALIS LEAVES.—No change in the spot price of Portuguaise at 140s. per cwt., or English 2s. 6d. per lb.

DRAGON'S BLOOD.—The only variety offered dull Zanzibar drop, price of which would be 25 per cwt., with only small quantities available.

ERGOT.—New allocations have been granted.

GUM ACACIA.—Kordofan cleaned sorts, steady in spot at 80s. per cwt.; bleached, shipment, 40s., c.i.f. Talha, cleaned, 50s. per cwt., unquoted.

HENBANE.—Indian leaf, spot, 250s. to 275s. per cwt., according to holder; some low-testing quoted at 1s. per lb., and Russian leaf at 350s. per cwt.

JABORANDI.—Small supplies are quoted at 2s. 6d. per cwt., on spot.

KAMALA.—Material with 6 per cent. ash would be worth 1s. 10d. per lb.

LIQUORICE ROOT.—Russian root, for pharmaceutical purposes, 85s. per cwt.; small supplies of single-peeled Syrian, spot, 110s. per cwt., subject to D.M.S. approval.

MENTHOL.—Considerable inquiry is being received but supplies are restricted and prices nominal.

MERCURY.—Quoted officially at from £68 10s. to £69 15s. per flask, according to conditions and quantity, with higher rates for smaller lots and redistilled grades.

MYRRH.—Any remaining supplies of good Aden sorts would fetch £20 per cwt.

NUTMEGS.—West Indian, wormy and broken, spot, 1s. 5d. per lb.; sound unsorted, 1s. 7d.

NUX VOMICA.—Cochin, spot, 40s. per cwt.; shipment, 35s. c.i.f.; Cocanada seed, shipment, 2s. 6d. per cwt., c.i.f.

ORANGE PEEL.—No further supplies are available on spot.

PEPPER.—Maximum prices of whole pepper, not picked over or cleaned, on sale to processors, 1s. 4d. per lb. for white and 1s. per lb. for black, both duty paid.

PIMENTO.—Spot, sellers, 1s. 4½d. per lb.

QUASSIA.—Spot supplies at 40s. to 45s. per cwt.; according to quantity.

QUILLAIA BARK.—Crushed or cut, spot, 90s. per cwt.; natural, 75s.; shipment, 65s. c.i.f.

RHUBARB.—Rough-round is in good demand with spot holders asking 10s. 6d. to 11s. per lb. The higher price quoted last week for flat high-dried appears to have brought out a few odd lots which may be had at 11s. 6d. Small quantities of Shensi irregular shapes may be obtained at 14s.

SEEDS.—Quiet conditions prevail in these markets. A few small inquiries are noted. Current rates are as follows: **CORIANDER.**—Indian, 75s. per cwt. **CUMIN.**—Maltese, spot, 105s.; Indian, 100s. **DILL.**—125s., ex wharf. **FENNEL.**—Offered at 85s. **FENUGREEK.**—May be had at 80s. **MUSTARD.**—Controlled prices are unchanged.

SENNNA.—Alexandrian medium pods are at 4s. per lb.; Tinnevelly, manufacturing grade, 6d. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevelly, No. 1, 9d. to 10½d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

STRAMONIUM LEAVES.—Some East Indian leaves may be bought on spot at 80s. per cwt.

STROPHANTHUS SEED.—Spot quotations for 100 per cent. Kombé seed are now at 7s. to 7s. 6d. per lb., according to quantity. It is understood that import licences have recently been refused.

TRAGACANTH.—Prices of the medium grades are unchanged as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale-leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15. •

TURMERIC.—In quiet demand at unchanged rates. Madras finger, sound-quality, spot, 55s. per cwt., London; 52s. 6d., Liverpool; 50s., Glasgow.

VALERIAN ROOT.—Spot quotations for Indian root are steady at 105s. per cwt.

WAXES.—**BEES'.**—Supplies may be obtained only through members of the Association of Merchant Distributors of Beeswax; official prices are as follows: Crude, 260s. to 290s. per cwt.; refined, 315s. to 355s.; bleached, 340s. to 370s.; Calcutta, crude, 250s. to 270s.; Calcutta, bleached, 325s. to 335s. **CARNAUBA.**—Fatty grey, 440s. per cwt., ex store, in minimum one-bag lots; shipment, 390s., c.i.f.; Primeira, 525s. to 540s. per cwt., ex store, nominal; shipment, 475s. c.i.f.; medium yellow, 530s., nominal; chalky grey, 430s., nominal; shipment, 377s. 6d., c.i.f. (c.i.f. prices include ½ per cent. W.R.I.). **CANDELILLA.**—Under 1 ton, 220s. per cwt.; 1-3 tons, 217s. 6d.; 5 tons and over, 215s., ex store. **OURICURI.**—Spot, 290s. to 330s. per cwt., as to quality.

Essential and Expressed Oils

ANISE (STAR).—Unchanged, with the price nominal at 15s. per lb.

BAY.—In short supply on spot; any available odd lots would be worth about 12s. per lb.

CASTOR.—Firsts are quoted at £92 per ton and seconds at £90, both naked ex works, in bulk quantities.

CINNAMON.—Leaf oil, if available, would fetch approximately 13s. 9d. per lb.

CLOVE.—English distilled is in fair supply on spot; price unchanged at from 11s. 6d. to 12s. per lb.

COCONUT.—Bulk supplies of refined deodorised are officially quoted at £49 per ton, and refined hardened deodorised at £53.

COTTONSEED.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works.

EUCALYPTUS.—Small quantities of 70 to 75 per cent. oil may be had on the spot at around 7s. 6d. per lb.

GINGERGRASS.—Small lots may be had at approximately 22s. 6d. per lb.

LINSEED.—The official price of £60 per ton for bulk supplies of crude, naked ex works, is unchanged.

NUTMEG.—Price is steady. English distillers quote at 35s. per lb., with lower rates for quantities

OLIVE.—Quotations for edible oil are steady at 25s. 9d. per gallon (9-lb.), ex store.

PALMAROSA.—In small compass on spot at approximately 55s. per lb.

PEPPERMINT.—Nominal at 190s. per lb.; good inquiry.

Controlled Essential Oils.—The following is the current schedule of prices for controlled essential oils. Prices are per lb., for oils delivered to consumer in original packages.

Lemon, cold-pressed	18s. 10 <i>½</i> d.
Lemon, distilled	14s. 4d.
Peppermint	36s. 4d.
Grapefruit	18s. 2 <i>½</i> d. (incl. duty)
Sassafras	11s. 3 <i>½</i> d. (plus 1s. duty)
Caraway	20s. 4 <i>½</i> d. (plus 1s. 1 <i>½</i> d. duty)
Wormseed	15s. (plus purchase tax where payable)
Cedarwood	3s. 1 <i>½</i> d. (plus 3d. duty)
Nutmeg	22s. 3 <i>½</i> d. (plus 2s. duty)
Fennel	11s. 3 <i>½</i> d. (plus 1 <i>½</i> d. duty)
Coriander, Russian	127s. (plus 11s. 6d. duty)
Geranium, Bourbon	25s.
,, (Ministry oil)	24s. 6d.
Orange oil, Jamaica	23s. 6d.
Vetivert	27s. 7d. (plus 3s. 5d. duty)

COMMERCIAL NOTES

Penicillin Production in Australia.—The Federal Government of Australia has authorised the construction, at a cost of £A65,000, of a building designed to accommodate the necessary processes for the large-scale manufacture of penicillin.

New Fibre.—A fibre resembling wool in appearance and giving similar warmth is being made from soya bean. ("Chemical and Metallurgical Engineering," January). It is resilient, strong and durable, and can be made either moisture-absorbent or moisture-resistant. The fibre can be blended with either cotton or wool, or woven and spun into fabrics.

U.S. Acetic Anhydride Production.—The United States War Production Board has announced that newly-developed military demands have made it necessary to increase the nation's capacity for producing acetic anhydride by between 12,000,000 and 15,000,000 lb. per year. The chemical is widely used in resins, dyes, plasticisers, certain foods and pharmaceuticals, but it is the effectiveness of one of its derivatives as an insecticide that has resulted in the increased military demands.

Cauassu Wax.—Cauassu, a plant not unlike a small banana tree, which grows near streams in the Para highlands of Brazil, yields from the underside of the leaves a wax claimed ("Chemical and Metallurgical Engineering," January) to be equal in quality to carnauba, and easier to harvest. Hopes are expressed that production of the wax will be largely increased after the war, but a problem awaiting solution for both cauassu and carnauba waxes is an improved means of extracting the wax from the leaves. Hand methods now employed are stated to result in loss of wax.

Palestine Pharmaceutical Industry.—At a Press conference held in Jerusalem recently, Sir George Heron (Controller of Medical Supplies and Commissioner for Reconstruction) described how Jewish experts who had gone to Palestine from Central Europe during the past eleven years had built up nine large pharmaceutical manufacturing concerns and five smaller firms which had supplied Palestine's needs and in addition built up an export trade. The total production amounted to about £500,000 sterling annually, including £200,000 from exports to neighbouring countries. Research work had enabled local chemists to improve standard products and find substitutes for others unobtainable at present owing to the war.

MISCELLANEOUS INQUIRIES

Poisoning by Ivy.—*M. T. C.*—Both the leaves and the berries of ivy are poisonous, and contact with the leaves causes dermatitis in some persons. The berries contain two saponin-like glycosides, hederin and ederagenin.

Injection of Paraldehyde.—*P. L.*—We cannot find any trace of paraldehyde having been used intramuscularly. It is sometimes given intravenously for the rapid induction of general anaesthesia (dr. 1½ to 4 with an equal amount of ether, in 5 fl. oz. normal saline).

Hair Growth.—*F. L. O.*—It is impossible in the present state of knowledge to say why hair grows rapidly in one place and not in another. Cutting certainly stimulates growth and the resulting hair is often stiffer and longer. This is noticeable in the eyebrows and ears.

Neocalamine.—*C. J. C.*—Neocalamine is the name given in the "National Formulary" of the American Pharmaceutical Association to an artificial calamine, the formula of which is: Zinc oxide, 93 gm.; red ferric oxide, 3.0 gm.; and yellow ferric oxide, 4.0 gm. The product has a pale, yellowish-orange colour.

Citric Acid Ferments.—*D. O. B.*—Citric acid is now largely made by fermentation methods, various organisms being used by different makers. The earliest to be used was a *Citromyces* in 1893, followed in 1897 by *Mucor pyroformis* (a fungus found on decomposing pears and apples). Species of *Aspergillus* are also used.

Isinglass.—*I. R. C.*—Isinglass was originally the swimming bladder of several species of the sturgeon (*Acipenser*), and much of it still comes from this source. Large quantities are also now made from the bladders of other fishes, such as cod, ling and hake, but the product usually contains an excessive amount of water-soluble matter.

Zinc Oxyphosphate Cement.—*H. C.*—Zinc oxyphosphate cement is powdered zinc oxide freshly made into a paste with phosphoric acid. In a short time the paste sets to a hard mass. For uniting metals to glass an excellent cement is a thin paste of calomel and mucilage of acacia. It must be freshly prepared.

Using Clinical Thermometers.—*K. G. N.*—Whatever the marking, it is usual in most hospitals, under ordinary conditions of use,

to insert a clinical thermometer for three minutes to ensure that the instrument reaches equilibrium before reading. Variations in the configuration of the bulb seem to have little or no effect in reducing the time required.

Chloroform in Cough Mixture.—*T. B.*—There is no need to dissolve the chloroform in alcohol, as a 1 in 400 solution is readily made by shaking well with the aqueous constituents of the cough balsam. Chloroform, being volatile, is always liable to be lost unless kept in well-closed containers. A non-volatile preservative, such as *p*-hydroxybenzoic acid, is often used.

Vanillin Extract.—*Y. N.*—A formula for vanillin extract similar to vanilla essence is:—

Vanillin	..	..	..	7.5
Coumarin	..	..	..	0.5
Alcohol	..	..	..	225.0
Glycerin	..	..	..	45.0
Caramel	..	..	..	10.0
Aq. dest. ad	..	..	..	1,000.0

Turkey Red Oil.—*P. P.*—Turkey red oil (sulphonated castor oil) is somewhat over-efficient as a cleanser when used alone, for it removes every trace of natural oil from the skin and is too sticky. A better plan is to mix it with sulphonated olive oil to reduce the stickiness and a liquid paraffin to impart a slight greasiness afterwards. Used in this way it is unlikely to be harmful to the skin, but its use if abrasions are present is not advised.

To Make Parchment Paper.—*T. B. B.*—To make parchment paper, dilute sulphuric acid with half or a quarter its volume of water, cool to the ordinary temperature, and dip into it unsized white paper for a few seconds; then wash with weak ammonia. Semi-translucent paper, resembling parchment paper in appearance, may be made by brushing a solution of oak varnish, 1, in turpentine, 4, on ordinary white paper and allowing to dry.

Cleaning Carpets.—*J. H. C.*—A suitable powder for cleaning and brightening up carpets is:—

Sawdust	..	..	9
Powdered sodium carbonate	..	1	
Quillaia bark powder	..	1	

Spread the dry powder over the carpet and rub it well in with a broom. Then dip the broom in water and sweep the powder and adherent dirt out of the carpet. Keep the broom moist during the process.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Donations Invited

SIR.—May I ask the hospitality of your columns for the following appeal? For more than seventeen years Mr. Joseph Reed has carried out the duties of secretary of the West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society in a most efficient and energetic manner; now, greatly to our regret, he has resigned the post. A small committee is considering how to show in a practical manner our deep appreciation of his services. Will all wishing to contribute please send their donations, so soon as possible, to Mr. F. R. Maxey, 56 Woodgrange Road, E.7.

Yours faithfully,

Barking.

W. H. CLOUD.

A Bismarckian Principle?

SIR.—One cannot often quarrel with *Xrayser*, whose weekly paragraphs give evidence either of a profound erudition or alternatively of the utmost care in verifying his references. To attribute the principle "Divide and rule" to Bismarck (*C. & D.*, June 3, p. 589) is surely, however, like describing "The Taming of the Shrew" as a play about Douglas Fairbanks. Machiavelli and King Louis XI of France, who both, at earlier periods in history, adopted the slogan, would probably themselves be the first to acknowledge their debt to the Senate of Rome, who in turn may not even have been the originators of an injunction which Benham's "Dictionary of Quotations" describes as "traditional."

Yours faithfully,

ALI QUOT.

Profit Margins on Proprietaries

SIR.—With reference to the announcement by Bayer Products, Ltd., in the *C. & D.*, Supplement (June 24) that branch managers of a chain pharmacy company are being instructed to cease handling Bayer products, though I hold no brief for any such company, I am wondering whether the boycott (especially of items which are "prescription" lines) may not be due to the fact that the profit margin on these goods is the totally inadequate one of 25 per cent. This observation, of course, would apply equally to certain other firms, if a boycott were to be ordered in regard to their products. It is worth noting that, since the outbreak

of war, one other firm has increased the retailers' profit margin to 33½ per cent.—the minimum which should be accepted by chemists for any article. It may also be pointed out that a number of medical men, when prescribing certain proprietaries, have often stated "or equivalent," and it is quite possible for chemists collectively and individually to use their influence with doctors to increase this practice. The moral for the makers and other such firms, therefore, is "In order to secure the goodwill of pharmacists, give a minimum of 33½ per cent. margin on retail prices."

Yours faithfully,

Bath.

E. C. HASKINS.

Appreciation

I have much pleasure in sending my subscription to the *C. & D.*, as I think it is one of the very few payments I make these days for which I get really good value. I feel that the continued high standard of the *C. & D.* itself is a great credit to your staff, and when the *Diary* is included in the subscription, I have really only one problem, and that is: how is it done?—J. R. H. (Ealing, London, W.5).

COMING EVENTS

Notices for inclusion under this heading should be sent in time to reach the Editor at Bath not later than Wednesday morning of the week of insertion. Secretaries are advised to send copies of printed programmes of local activities so soon as they are completed.

Sunday July 2

MANCHESTER PHARMACEUTICAL ASSOCIATION.
Ramble round Bamford. Meet Central Station, 8.15 a.m. Book Bamford return.

Wednesday, July 5

MANCHESTER PHARMACEUTICAL ASSOCIATION and Branches. Wythenshawe Park, Manchester, at 2.45 p.m. Garden party. Tickets, 3s. each.

"C. & D." QUIZ NO. 31.—The answers to the questions on p. 4 are: 1. A modern nominal form of ancient pepper rents, which were paid in spices. 2. Because of the similarity of the seed to the ricinus, a tick which infested animals. 3. K. W. Scheele, 1789. He called it the "sweet principle of oils." 4. Saturn. 5. Exodus XXX, 34 and 35. 6. Colophony, linseed oil and oil of turpentine, melted together. 7. 1852. 8. King Henry VIII. 9. From the temple of Jupiter Ammon in the Libyan desert, where it was first made by burning camels' dung. 10. John Masefield.

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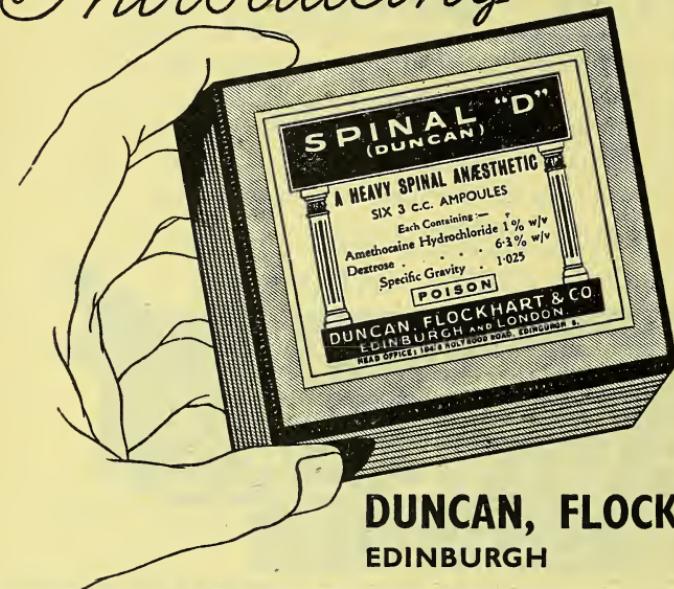
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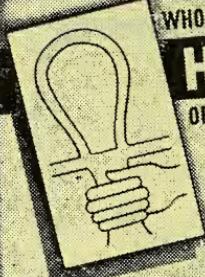
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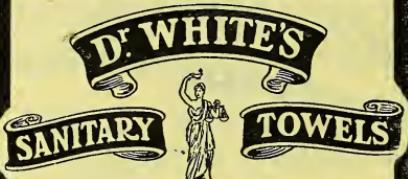
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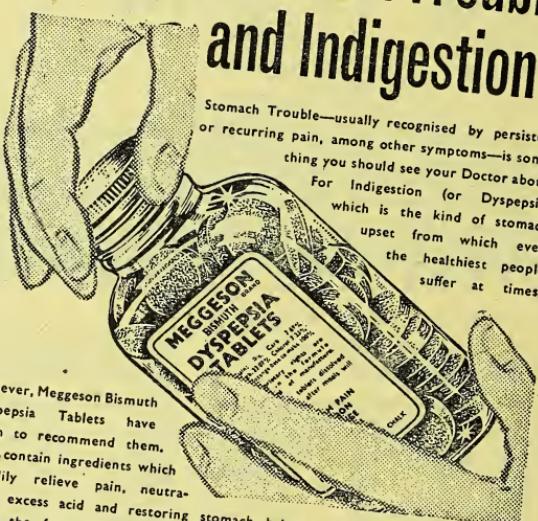
Dyspepsia is the trouble of difficult digestion from Stomach nature, you see Doctor. For of Indigestion



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What is the difference between Stomach Trouble and Indigestion?



Stomach Trouble—usually recognised by persistent or recurring pain, among other symptoms—is something you should see your Doctor about. For Indigestion (or Dyspepsia) which is the kind of stomach upset from which even the healthiest people suffer at times,

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

JULY 1
1944

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AMBRESIL No. 398. Produces a fine, brilliant white cream, with water only. AMBRESIL No. 4. The Premier Oil-in-Water Emulsifier. AMBRESIL V.C. Creates a really remarkable Vanishing Cream of pearly whiteness, imparting a perfect matt effect. Technical data on application. Price of each 15s. lb. Reduction for quantities. ARISTOL-AMBRESIL LTD. 6 Tower Street, Harrogate

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UNQUALIFIED Assistant for South London Pharmacy. Part-time might be considered. Apply Lewis & Burrows, Ltd., 146 Holborn, E.C.1.

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WANTED, Tablet Machine Operator, experienced in setting up single punch and rotary tablet machines for works in West London area; wages, £20 per week (this includes war bonus and overtime for 54-hour week). Apply, Box No. O.672, S. H. Benson Ltd., Kingsway Hall, W.C.2.

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Consideration will be given to applications for appointment on a temporary basis during the period of the war only from any persons desiring to be considered on that basis.

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SSISTANT PHARMACIST wanted at once for the duration of war. Hours: 8.30 a.m. to 4.30 p.m., with occasional late duty. Salary £300 per annum. Applications, with full particulars and testimonials, to be sent to the Pharmacist.

PHARMACIST. Junior Assistant (female) required; commencing salary £234 per annum, with lunch and tea; duties to commence July 3 or as soon as possible; hospital experience preferable. Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, to be sent to the Secretary, Miller General Hospital, Greenwich, S.E.10.

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ADVERTISERS wish to contact manufacturers in London area who would undertake the manufacture, packing, and dispatch of Floor Polish. Formula, raw materials, and tins supplied. 570/452, C. & D. London Office.

BUSINESS expansion. With the object of using their facilities to the full, City Produce and Chemical Merchants are open to negotiate service agreements or consider proposals for amalgamation or purchase; inquiries from principals only, which will be treated in confidence, are invited. 569/422, C. & D. London Office.

OFFERS required for Patent Medicines, Cosmetics, and Toilet Goods for Australia. Full particulars to C. Winther & Co., Ltd., 131 Victoria Street, S.W.1.

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LEGAL**GWILYNN JOHN LLOYD, deceased**

Pursuant to the Trustee Act, 1925.

Notice is hereby given that all persons or firms having any claims against the estate of Gwilym John Lloyd, of 448 Kingsland Road, London, Chemist and Druggist, who traded as the Northern Drug Stores at that address, and who died on the 14th day of April, 1944, are hereby required to send particulars in writing of their claims to us, the undersigned, on or before the 12th day of September, 1944, after which date the estate will be distributed among the persons entitled thereto, having regard only to the claims of which notice shall then have been received.

Dated this 23rd day of June, 1944.

CROSSFIELD, CUSHING & WHELDON,
354 HACKNEY ROAD, LONDON,
Solicitors for the Executrix.

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ONE Pascall "Monitor Minor" Twin Roll Ointment Mill, fitted with porcelain rolls; used only once, as new; best offer. 570/447, C. & D. London Office.

TWO Tabletting Machines, complete with stands, adaptable for lineshaft or independent motors; suitable to $\frac{3}{4}$ "; in production, but space wanted for heavier machines; inquiries or offers, Messrs. Goolud, 21 St. Mary's Gate, Nottingham.

WHITE Ceresine; 8 cwt. available at £5 per cwt. Harman Dietetic Laboratories, Ltd., 109 The Broadway, Cricklewood, N.W.2.

300 GROSS 8-oz. Square Barley Jars, with lacquered screw metal caps and liners, to clear. Lennard, Lee-Narvill & Co., Ltd., Lee-Narvill Laboratories, Hull.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

A RELIABLE Parsee Firm of nearly fifty years' standing in Bombay, and representing British Firms and Manufacturers, desires further Agencies in Patent Medicines, Drugs, Chemicals, Toilet Requisites, Provisions, Paper, Cutlery, etc. Messrs. Framjee & Son, P.O. Box 542, Nanjee Building, Elphinstone Circle, Fort, Bombay.

ADVERTISER, representing Wholesale House, would like to contact Manufacturers of Sundries and other suitable lines for Wholesale Chemists' Trade. Particulars in first instance. 570/457, C. & D. London Office.

AGENCIES required, wholesale, for Midlands by enterprising firm; sole agencies sought particularly. CDB/305, C. & D. London Office.

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DUBLIN firm of Wholesale Chemists and Distributors of high repute are desirous of contacting English manufacturers of goods suitable for Chemists, Hairdressers, and Stores. Sole Agencies or wholesale terms invited particularly for Proprietary Medicines; Toilet, Household, or Hardware, requisites; Fancy Goods; and Sundries, Drugs, etc. Exceptional sales organisation and representatives covering entire area of Eire and Northern Ireland. Highest references available, and first-class representation assured. Inquiries re post-war trade welcomed. Replies in strict confidence. 570/451, C. & D. London Office.

MANUFACTURERS of high-grade Floor Polish and Insecticide require Buying Agents for: (1) South Wales; (2) Devon, Cornwall; (3) Surrey and Sussex; (4) Derby, Leic., Notts; (5) Glos., Wilts, Hereford; (6) Worcs., Warwick. 570/453, C. & D. London Office.

Scottish Firm (established), desirous of obtaining a good Agency. Live sales organisation available for concentration on sound lines with post-war prospects; excellent connexion among Chemists, Stores, etc. CDB/306, C. & D. London Office.

WELL-KNOWN firm of Distributors and Manufacturers, who have warehouses in the provinces and London office and showrooms, can undertake sole distribution of additional attractive Lines suitable for the Chemist, Grocery, and Drapery Trade. Sound connexion amongst retail, wholesale, and chain store trade; only interested in products which bring in a five-figure turnover; advertising and accounts to be controlled by advertiser. Full particulars to 570/454, C. & D. London Office.

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ALL types Screw-cap Medicals required; 6 oz. or 8 oz. Also 2-oz. Screw-cap Ointment Jars. Any good quantities taken. Please send samples and prices to Hough, Hoseason & Co., Ltd., Hollins Street, Pendleton, Manchester.

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PAPAVERINE Hydrochloride, Codeine, Phosphate or other Salts urgently required for manufacture of C.F. Products. Moore Medicinal Products, Ltd., 7 Bon Accord Square, Aberdeen, Scotland.

SACCHARIN Tablets. Any quantity purchased for cash. Would entertain contract for regular supplies. G. H. Smith, 127 Cheviot Gardens, N.W.2.

SOAPlodder. 10-in. to 12-in. Soap Puddler wanted at once; very good price paid. Shaw-Zee-Kol Co., Ltd., 40 Bavaria Road, Upper Holloway, London, N.19.

TRINITY LABORATORIES, LTD., Brook House, Blackburn, makers of "Seura" Ointments urgently require 2,000 gross 1-oz. and 2-oz. Ointment Jars, complete with caps. Keen quotations for prompt delivery in lots of not less than 25-gross will be appreciated.

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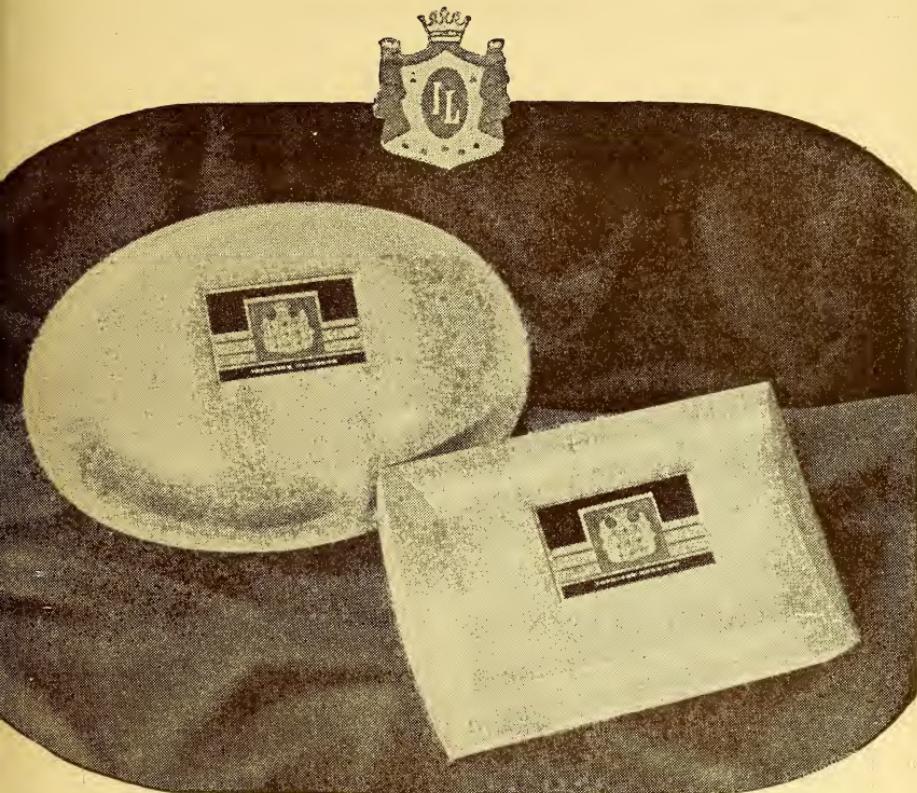
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